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Tachinid flies (Diptera: Tachinidae) from the Hautes-Alpes, France

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Abstract

Data are dealt with on the distribution and ecology of tachinids (Diptera: Tachinidae) from the Hautes-Alpes department of the French Alps. They are based on material observed or collected by the authors during 23 excursions between the years 1964 and 2002. Together with the few records from the literature, 343 species are now known from the Hautes-Alpes.
Keywords: Diptera, Tachinidae, Hautes-Alpes, France, Alps.

Zusammenfassung

Diese Arbeit enthält Angaben zur Verbreitung und Ökologie der Raupenfliegen (Diptera: Tachinidae) des Departements Hautes-Alpes der französischen Alpen. Die Daten basieren auf 23 Sammelexkursionen der Autoren während der Jahre 1964–2002. Einschließlich der wenigen Literaturangaben konnten bisher 343 Arten nachgewiesen werden.

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1 Introduction

The Tachinidae are a very large family, whose members are all parasitoids of arthropods (nearly all of them insects). They are of special importance as a natural limiting factor of insect pests. Information on the hosts may be found in Herting

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(1960) or TSCHORSNIG & HERTING (1994); the main distribution in the Palaearctic region is given by HERTING & DELY-DRASKOVITS (1993).

Most of the records of tachinids from the Alps refer to the central, southern, and eastern parts of the Alps in Austria, Switzerland, and Italy (BEZZI 1893, 1918; FRANZ 1989; HERTING & TSCHORSNIG 1997; LINDNER 1973; RINGDAHL 1957; STROBL 1894; TSCHORSNIG 1997a, 2001; ZIEGLER 2002; ZIEGLER & LANGE 2001). It was therefore of special interest to study the fauna of the western parts of the Alps in France, which was poorly known before. Due to practical reasons this paper is restricted to the most interesting part of the French Alps, the department Hautes-Alpes. This region combines high elevations (up to 4100 m) with a dry and sunny climate.

The first person to collect Tachinidae in the Hautes-Alpes department was J. VILLENEUVE (see VILLENEUVE 1905). He visited La Grave and the Lautaret between 29.VI. and 2.VII.1903, together with L. LÉGER and E. HESSE. The same localities were visited again by him and his colleagues T. BECKER, A. KUNTZE, and I. SCHNABL from 10.VII.–6.VIII.1908 (see BECKER 1909). There was a third expedition to the Lautaret in 1925 (at least from 1.–4.VIII.), which may be deduced from the data of a few specimens stored in the collection M. P. RIEDEL in the Museum of the Humboldt University at Berlin. 29 species were collected later by O. RINGDAHL from the Lautaret and La Grave (RINGDAHL 1957). Even earlier as VILLENEUVE dates the record of LOMBARD (1896, see below under *Phryxe setifacies*), but nothing is known about a possible excursion of this collector.

A remarkably high number of tachinids were described as new to science from the Hautes-Alpes: seven species by J. VILLENEUVE (*Phryxe setifacies*, *Triarthria legeri*, *Goniocera montium*, *Ramonda delphinensis*, *R. jugorum*, *Wagneria alpina*, *Chaetovoria antennata*,), two species by B. HERTING (*Nilea brigantina*, *Phryxe tenebrata*), two species by H.-P. TSCHORSNIG (*Chetogena alpestris*, *Graphogaster nigrisquamata*), one species by L. P. MESNIL (*Macquartia hystrix*), and one species by J. ZIEGLER (*Chetogena tschorsnigi*). A further three species were described, but are now synonyms: *Minthodes monticola* Villeneuve = *Minthodes picta* (Zetterstedt), *Pandelleia alpicola* Villeneuve = *Pandelleia sexpunctata* (Pandellé), and *Melia forcipata* Bigot = *Besseria anthophila* (Loew).

Acknowledgements

The first author thanks his wife ANTONIA and his children JAN and STEFFEN for their occasional support in collecting Tachinidae. His thanks are also due to the administration of the "Parc National des Écrins" for the permission to collect Tachinidae in the central part of the nature reserve, and to Dr. ARNO WÖRZ (Stuttgart), who identified several Apiaceae. The second author is grateful to his wife CHRISTIANE for her valuable cooperation during some excursions. Thanks are extended to CHRISTER BERGSTRÖM (Uppsala) and PIERFILIPPO CERRETTI (Rome) who read the paper, and to CHRIS RAPER (Reading) for the linguistic revision.

2 Materials and methods

This paper is based on material collected or observed during 23 excursions by B. HERTING (11.VI. and 22.–26.VII.1964, 5.–12.VII.1975, 8.–16.VII. and 28.–30.VIII.1976), H.-P. TSCHORSNIG (17.–18.VI.1981, 29.VI.–2.VII.1982, 16.–17.VI. and 31.VII.–5.VIII.1983, 28.VII.–2.VIII.1985, 7.–12.VII.1991, 29.VII.–3.VIII.1992, 24.–28.VII.1995, 2.–15.VIII.1997, 2.–14.VIII.1998, 19.–30.V.2002), J. ZIEGLER &

H.-P. TSCHORSNIG (4.–6.VII.1992), and J. ZIEGLER & C. LANGE (26.–29.VII.1992, 20.–28.VII.1996, 1.–2.VII. and 13.–16.VII.1997, 2.–7.VIII.1998, 16.V.1999). This means a total of 130 days of field work, and data which cover a period of nearly 40 years.

The specimens were either collected with a normal butterfly net or swept from low vegetation with an especially big net (80 cm diameter). For the collection of specimens that were sitting on rocks and stones, a transparent plastic bag was helpful. Yellow pan traps (40 pieces) were only used in spring 2002.

A few records were added from material which was collected by M. BARTÁK (Praha) or C. SCHMID-EGGER (Maulburg). These specimens, and also the reared Tachinidae of FORD et al. (2000), were identified or revised by the first author of the present paper.

The tachinids collected by H.-P. TSCHORSNIG and B. HERTING are preserved in the Naturkundemuseum Stuttgart (Germany), the material of J. ZIEGLER & C. LANGE is stored in their private collection.

3 List of localities

The following list comprises the collection localities of the authors. The localities are arranged from northwest to southeast in the northern part, and from northeast to southwest in the southern part of the department (Figs. 1, 2). The part printed in bold is the short form used for each locality in chapter 4. A few additional isolated localities from other collectors are mentioned only in chapter 4 and do not occur on this list or on the maps. The abbreviations (E./W./N./S./SE./NE. etc.) refer to the compass points (east/west/north/south/southeast/northeast etc.).

The arrangement of the localities within chapter 4 follows the phytogeographic zonation system: Alpine vegetation zone (above timberline, elevation approximately 2100–2900 m); Subalpine vegetation zone (just below timberline, elevation approximately 1850–2100 m); Montane vegetation zone (larch wood in the upper parts, pine wood or mixed wood in the lower parts, elevation approximately 1100–1850 m); Submontane vegetation zone (relatively warm and semihumide areas with juniper and lavender, oak wood in the lowest parts, elevation approximately 500–1100 m). The arrangement within a single zone is more or less from north to south.

(1) **Combe de Malaval**, W. of La Grave (Vallée de la Romanche), ca. 1300 m (montane vegetation zone)
(2) **Peyrou d'Amont**, S. of La Grave, 2400 m (alpine northern slope)
(3) E. of **La Grave** (Vallée de la Romanche), 1450–1500 m (montane vegetation zone, edge of larch wood)
(4) **Crête du Galibier**, W. of Col du Galibier, 2826 m (alpine mountain peak)
(5) S. of Col du **Galibier**, 2400–2550 m (alpine southeastern slope, meadows and rock debris)
(6) **Crête de Chaillol**, NW. of Col du Lautaret, 2600–2739 m (alpine mountain crest)
(7) **NW. of Col du Lautaret**, 2191 m (alpine mountain peak)
(8) **Col du Lautaret**, 2075 m (subalpine to alpine southern slope)
(9) **E. of Col du Lautaret**, near the Tunnel du Rif Blanc, the Bois du Rif Blanc, and the Tunnel des Valois, 1800–2000 m (southwestern slopes, subalpine meadows with larches and mountain pines)

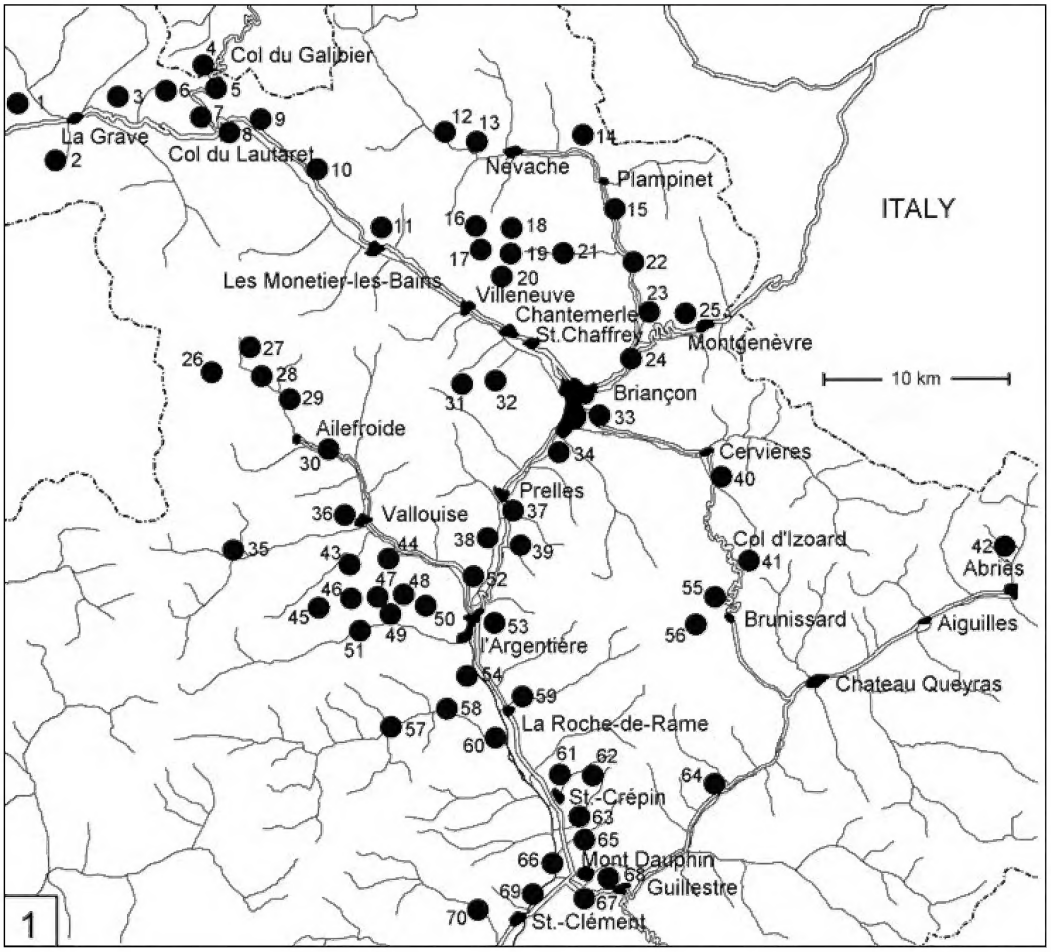

Fig. 1. Map of the Northeastern section of the Hautes-Alpes. For locality numbers see chapter 3.

(10) E. and NW. of **Le Lauzet** (Vallée de la Guisane), 1700–1800 m (montane southwestern slopes, larch wood and meadows)
(11) Near **Le Monêtier-les-Bains** (Vallée de la Guisane), 1450 m (montane meadows)
(12) **Chalets du Verney** (Vallée de la Clarée), 1800 m (montane southern slope, meadows and larch wood)
(13) From **Névache** to Chalets de Laval (Vallée de la Clarée), 1650–2000 m (montane meadows)
(14) Between 2 km E. from Névache (Vallée de la Clarée) and the **Col de l'Echelle**, 1600–1750 m (montane southern slopes and meadows between larch wood)
(15) 2 km S. of **Plampinet** (Vallée de la Clarée), 1450–1500 m (montane southern slope)
(16) **Le Grand Aréa**, NW. of Col de Granon, 2869 m (alpine mountain peak)
(17) **Le Petit Aréa**, W. of Col de Granon, 2487 m (alpine mountain crest)
(18) Between Col des Cibières and summit of **La Gardiole**, NW. of Col de Granon, 2525–2753 m (alpine southern to northeastern slopes with rock debris, and montain peak)
(19) SE. of **Col des Cibières**, NW. of Col de Granon, 2525–2600 m (alpine mountain ridge)
(20) SW. of Col de **Granon**, ca. 1700 m (montane meadows, southern slope)
(21) N. of **Croix de la Cime**, E. of Col de Granon, 2586 m (alpine mountain peak)

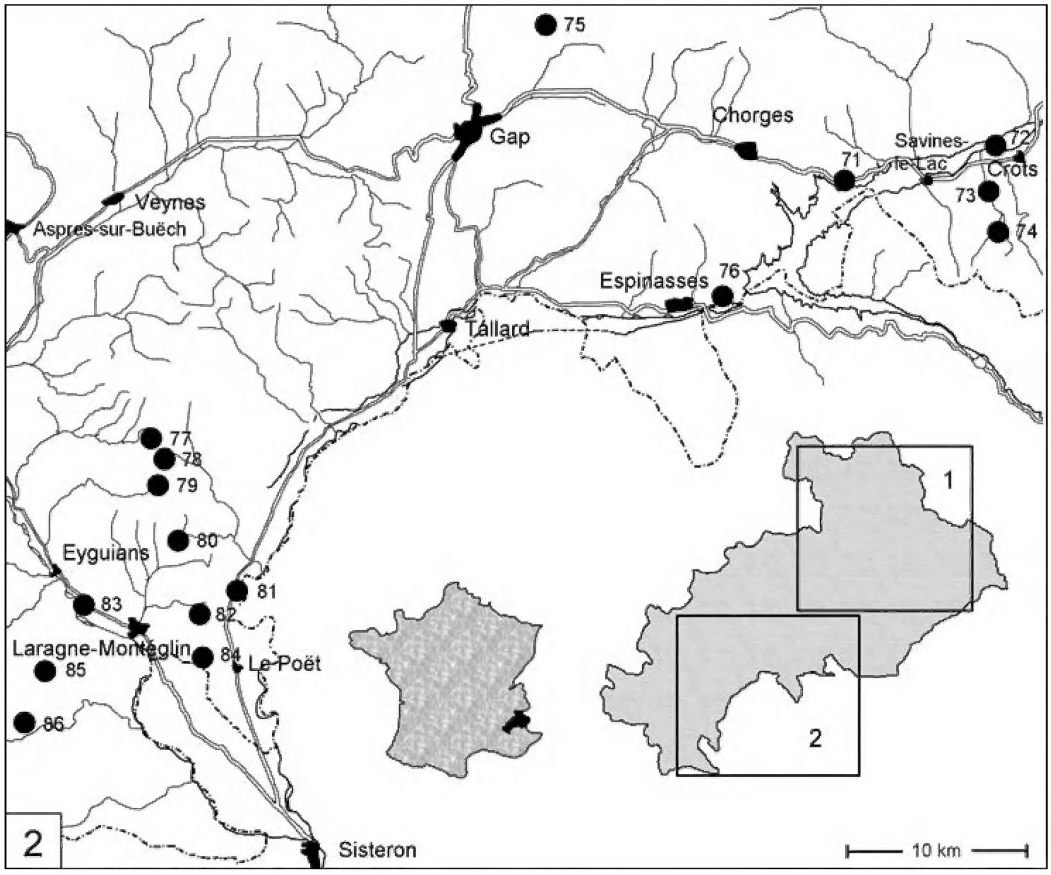

Fig. 2. Map of the Southwestern section of the Hautes-Alpes, and orientation maps. For locality numbers see chapter 3.

(22) **Sarserra** (N. of Val-des-Prés) (Vallée de la Clarée), 1400 m (montane southwestern slope, edge of pine wood)
(23) N. of **Les Alberts** (Vallée de la Clarée), 1350 m (montane southern slopes, meadows)
(24) **La Vachette** (Vallée de la Durance), 1350 m (montane meadows)
(25) W. of **Montgenèvre**, ca. 1800 m (montane southwestern slope)
(26) N. of **Glacier Noir**, 2200–2400 m (alpine southern slopes)
(27) Below **Glacier Blanc**, 2350 m (alpine rocks and southern slopes)
(28) **Pré de Mme Carle**, N. of Ailefroide, 1850–1950 m (subalpine plain with willow shrubs and southern slopes with few larches)
(29) **N. of Ailefroide** (Vallouise), 1550–1700 m (montane larch wood with meadows)
(30) **Ailefroide** (Vallouise), near camping, and Torrent de Ailefroide below the village, 1400–1450 m (montane meadows between larch wood)
(31) **Crête du Rocher Blanc**, W. of Briançon, 2500–2550 m (alpine, crest and two mountain peaks, including slopes)
(32) **Prorel**, W. of Briançon, 2400–2566 m (alpine mountain peak and southern slope)
(33) **Briançon** (Vallée de la Durance), 1200–1350 m (montane vegetation zone)
(34) Near **Villard St-Pancrace** (Vallée de la Durance), 1250 m (montane meadows)
(35) **Entre-les-Aigues**, W. of Vallouise, 1600 m (montane meadows)
(36) Surroundings of **Vallouise**, ca. 1200 m (montane vegetation zone)
(37) **Roche Baron**, N. of St-Martin-de-Queyrières (Vallée de la Durance), 1200 m (montane southwestern slope with juniper and lavender)

(38) 2 km S. of **Prelles** (Vallée de la Durance), 1200 m (montane eastern slope, rock debris and dry meadows)
(39) Torrent de **Queyrières**, S. of St-Martin-de-Queyrières (Vallée de la Durance), 1200–1300 m (montane gorge)
(40) Near **Le Laus**, N. of Col d'Izoard, 1700–1800 m (montane meadows between larch wood)
(41) E. of **Col d'Izoard**, 2360 m (alpine mountain peak)
(42) **Abriès** (Vallée du Guil), 1550 m (montane vegetation zone)
(43) S. of Station de **Puy-St-Vincent** (Vallouise), 1600–1850 m (montane larch wood and meadows)
(44) **Les Prés**, SE. of Puy-St-Vincent (Vallouise), 1400 m (montane northern slope, meadows and larch wood)
(45) **La Pendine**, S. of Puy-St-Vincent, 2750 m (alpine mountain peak)
(46) **Crête des Prés des Bancs**, S. of Puy-St-Vincent, 2300–2700 m (alpine mountain crest)
(47) **Tête d'Oreac**, S. of Puy-St-Vincent, 2088 m (subalpine mountain ridge)
(48) **Col de la Pousterle**, NW. of l'Argentière-la-Bessée, 1750–1800 m (montane larch wood and meadows)
(49) **S. of Col de la Pousterle**, 1600 m (montane southern slope, meadows and shrubs)
(50) **Les Têtes**, W. of l'Argentière-la-Bessée, 2044 m (subalpine mountain ridge, rocks, meadows and larch wood)
(51) Banks of the river **Fournel** (Vallée du Fournel), 1400–1450 m (montane meadows, mixed wood and shrubs)
(52) **La Bâtie** des Vigneaux, N. of l'Argentière-la-Bessée (Vallée de la Durance), 1050 m (submontane southern slope with juniper and lavender)
(53) **E. of l'Argentière**-la-Bessée (Vallée de la Durance), 1000–1100 m (submontane western slope with juniper and lavender)
(54) Ca. 2–3 km **S. of l'Argentière**-la-Bessée (Vallée de la Durance), 950–1000 m (submontane eastern slope with pines, shrubs, and lavender)
(55) 0.5–1 km NW. of **Brunissard**, S. of Col d'Izoard, 1800–1900 m (montane meadows, larches and mountain pines)
(56) **Crête de Jambe Route**, SW. of Col d'Izoard, W. of Brunissard, 2616 m (alpine mountain crest)
(57) Banks of the river Biaysse near **Les Mensals** (Vallée de la Biaysse), 1400 m (montane wet meadows, mixed wood and shrubs)
(58) Surroundings of **Fressinières** (Vallée de la Biaysse), 1150 m (montane vegetation zone)
(59) N. of **La Roche-de-Rame** (Vallée de la Durance), 950 m (submontane southwestern slope)
(60) **Le Gouffre de Gourfouran**, SW. of La Roche-de-Rame (Vallée de la Durance), 930 m (submontane agricultural plain and dry southern slopes)
(61) 500 m **NW. of St-Crépin** (Vallée de la Durance), 920–950 m (submontane southwestern slope with juniper and lavender)
(62) Below **Les Chapins**, NE. of St-Crépin (Vallée de la Durance), 1300 m (montane southwestern slopes, pine wood and meadows)
(63) 500 m **SE. of St-Crépin** (Vallée de la Durance), 950 m (submontane western slope with meadows between pine wood)
(64) **Combe du Queyras** (Vallée du Guil), ca. 1100 m (montane southeastern slopes, mountain pines)
(65) 2 km **S. of St-Crépin** (Vallée de la Durance), 900 m (submontane plain with juniper and lavender)
(66) **W. of Mont Dauphin** (Vallée de la Durance), 900 m (submontane agricultural plain, meadows)
(67) **Mont Dauphin** (Vallée du Guil), 900–1000 m (submontane southeastern slope with juniper and lavender)
(68) Banks of the river Guil, N. of **Guillestre** (Vallée du Guil), 920 m (submontane vegetation zone)
(69) Banks of the river Durance near **St-Clément** (Vallée de la Durance), 880 m (submontane vegetation zone)
(70) **Vallée de Rabious**, NW. of Chateauroux, 1200 m (edge of montane mixed wood and dry meadows)

(71) **Prunières**, W. of Embrun (Vallée de la Durance), 800 m (submontane southern slope with juniper and lavender)
(72) NW. of **Crots**, SW. of Embrun (Vallée de la Durance), 800 m (submontane agricultural plain, meadows)
(73) **Vallée de Boscodon**, SW. of Embrun, 920 m (submontane pine wood with various shrubs and meadows)
(74) **Forêt de Boscodon**, SW. of Embrun (Vallée de la Durance), 1100–1600 m (montane northern slope, mixed wood)
(75) **Col de Manse**, NE. of Gap, 1268 m (montane vegetation zone)
(76) 1 km E. of **Espinasses** (Les Celliers), W. of the Barrage de Serre-Ponçon (Vallée de la Durance), 700 m (dry southern slope with shrubs)
(77) **Col de Faye**, N. of Montagne de St-Genis (between Vallée du Buëch and Vallée de la Durance), 934 m (submontane mixed wood and meadows)
(78) **Bois de Faye** = northern slope of the Montagne de St-Genis (between Vallée du Buëch and Vallée de la Durance), 1000–1200 m (montane mixed wood)
(79) **Montagne de St-Genis**, Roc de l'Escalier (between Vallée du Buëch and Vallée de la Durance), 1432 m (mountain ridge with various shrubs)
(80) 4 km SW. of **Ventavon**, W. of Le Maupas (between Vallée du Buëch and Vallée de la Durance), 640 m (oak wood near brook)
(81) Right bank of the river Durance 1.5 km NE. of **Rourebeau**, E. of Laragne-Montéglin (Vallée de la Durance), 510 m (poplar grove, shrubs)
(82) 1 km NW. of **Upaix**, E. of Laragne-Montéglin (between Vallée du Buëch and Vallée de la Durance), 740 m (submontane southern slope: dry meadow and edge of mixed oak-pine wood)
(83) 3 km NW. of and 1 km E. of **Laragne-Montéglin** (Vallée du Buëch), 550–600 m (submontan hills, pine- and oak wood, dry meadows)
(84) Lac de Mison, 1.5 km W. of **Le Poët** (between Vallée du Buëch and Vallée de la Durance), 650 m (southeastern slope with oak wood and meadows)
(85) Montagne de **Chabre** (between Vallée du Buëch and Vallée de la Méouge), 1100–1350 m (mountain ridge and southern slope, pine wood mixed with oaks, various shrubs)
(86) 1 km E. of **Barret**-le-Bas (Vallée de la Méouge), 650 m (submontane pine wood, shrubs)

The following alphabetical list of the short form used in chapter 4 will enable localities to be found quickly. The number in brackets refers to the complete list above and to the maps (Figs. 1, 2).

(42) Abriès
(30) Ailefroide
(86) Barret
(78) Bois de Faye
(33) Briançon
(55) Brunissard
(85) Chabre
(12) Chalets du Verney
(77) Col de Faye
(41) Col d'Izoard
(48) Col de la Pousterle
(14) Col de l'Echelle
(75) Col de Manse
(19) Col des Cibières
(8) Col du Lautaret
(1) Combe de Malaval
(64) Combe du Queyras
(6) Crête de Chaillol
(56) Crête de Jambe Route
(46) Crête des Prés des Bancs
(4) Crête du Galibier
(31) Crête du Rocher Blanc
(21) Croix de la Cime
(72) Crots
(9) E. of Col du Lautaret
(53) E. of l'Argentière
(35) Entre-les-Aigues
(76) Espinasses
(58) Fressinières
(74) Forêt de Boscodon
(51) Fournel
(5) Galibier
(27) Glacier Blanc
(26) Glacier Noir
(20) Granon
(68) Guillestre
(52) La Bâtie
(18) La Gardiole
(3) La Grave
(45) La Pendine
(59) La Roche-de-Rame
(24) La Vachette
(83) Laragne-Montéglin
(60) Le Gouffre de Gourfouran
(16) Le Grand Aréa
(40) Le Laus
(10) Le Lauzet
(11) Le Monêtier-les-Bains
(17) Le Petit Aréa
(84) Le Poët
(23) Les Alberts
(62) Les Chapins
(57) Les Mensals
(44) Les Prés
(50) Les Têtes
(67) Mont Dauphin
(79) Montagne de St-Genis
(25) Montgenèvre
(13) Névache
(29) N. of Ailefroide

(7) NW. of Col du Lautaret
(61) NW. of St-Crépin
(2) Peyrou d'Amont
(15) Plampinet
(28) Pré de Mme Carle
(38) Prelles
(32) Prorel
(71) Prunières
(43) Puy-St-Vincent
(39) Queyrières
(37) Roche Baron
(81) Rourebeau
(22) Sarserra
(49) S. of Col de la Pousterle
(54) S. of l'Argentière
(65) S. of St-Crépin
(63) SE. of St-Crépin
(69) St-Clément
(47) Tête d'Oreac
(82) Upaix
(73) Vallée de Boscodon
(70) Vallée de Rabious
(36) Vallouise
(80) Ventavon
(34) Villard St-Pancrace
(66) W. of Mont Dauphin

4 List of species

4.1 General remarks

Arrangement of genera and species follows HERTING & DELY-DRASKOVITS (1993), as well as most of the nomenclature (the changes of ANDERSEN 1996 are accepted, except in two cases). The valid name of each species is followed by the locality, the latter arranged as it is explained in chapter 3. After the date of collection, the name of the collector is given within brackets (collector abbreviated as follows: He = BENNO HERTING, Ts = HANS-PETER TSCHORSNIG, Zi = JOACHIM ZIEGLER, ZiLa = JOACHIM ZIEGLER & CHRISTIANE LANGE). If more than one specimen has been observed or collected during a single day, the number of specimens is given within the same brackets after the collector. After the list of collection data, the range of elevations is given.

Observations on ecology are specified as far as they were noted in the field. Comments on distribution are given only for species of special interest.

Excluded from this list are several small specimens of *Gymnosoma* (near *G. costatum* or *G. dolycoridis*), because they must be revised.

All literature records are cited for the species that were already known from the Hautes-Alpes.

4.2 Subfamily Exoristinae

Exorista decidua (Pandellé, 1896)

Alpine: Prorel, 27.VII.1992 (ZiLa). – Montane: Les Alberts, 16.VII.1976 (He); Combe du Queyras, 23.VII.1964 (He). – 1100–2570 m.

Rare species. One specimen has been collected on stones on a mountain top.

Exorista fasciata (Fallén, 1820)

Alpine: Crête des Prés des Bancs, 12.VIII.1997 (Ts, 4). – Subalpine: Pré de Mme Carle, 8.VIII.1998 (Ts, 4), 10.VIII.1998 (Ts); Les Têtes, 14.VIII.1997 (Ts, 3), 5.VIII.1998 (ZiLa, 2). – Montane: Queyrières, 30.VI.1982 (Ts); N. of Ailefroide, 5.VIII.1983 (Ts), 5.VIII.1997 (Ts), 6.VIII.1997 (Ts); Entre-les-Aigues, 6.VIII.1997 (Ts). – 1200–2500 m.

Usually on flowers of Apiaceae (*Laserpitium*, *Peucedanum*). Several males have been found on mountain peaks on the branches of *Larix* and *Juniperus* or on stones. Hilltopping behaviour was not known before from this species (compare TSCHORSNIG 1996).

Exorista glossatorum (Rondani, 1859)

Montane: Col de l'Echelle, 11.VII.1976 (He, 4), 1.VIII.1985 (Ts, 2); Les Alberts, 12.VII.1975 (He), 9.VII.1976 (He, 2), 16.VII.1976 (He), 1.VIII.1985 (Ts); Brunissard, 11.VII.1991 (Ts), 28.VII.1992 (ZiLa, 2), 26.VII.1996 (ZiLa); Combe du Queyras, 26.VII.1996 (ZiLa). – Submontane: SE. of St-Crépin, 4.VIII.1998 (Ts). – 950–1850 m.

On flowers (*Laserpitium*, *Eryngium*, *Daucus*).

Exorista mimula (Meigen, 1824) (males)

Montane: Combe du Queyras, 23.VII.1964 (He). – Submontane: Crots, 3.VIII.1998 (Ts, 2). – 800–1100 m.

Swept from meadows with flowering *Daucus*, *Pastinaca*, and *Achillea*.

Exorista nova (Rondani, 1859)

Submontane: Upaix, 27.V.2002 (Ts). – 740 m.

Swept in a dry meadow from grass.

Exorista nympharum (Rondani, 1859) (males)

Subalpine: Pré de Mme Carle, 8.VIII.1998 (Ts, 5), 10.VIII.1998 (Ts, 2). – Montane: N. of Ailefroide, 1.VIII.1983 (Ts), 21.VII.1996 (ZiLa); Fressinières, 13.VII.1976 (He); Montagne de St-Genis, 30.V.2002 (Ts, 2); Chabre, 25.V.2002 (Ts). – 1150–1850 m.

On flowers of Apiaceae (*Peucedanum*, *Laserpitium*, *Heracleum*), or on leaves on mountain peaks.

Exorista paligera Mesnil, 1970 (males)

Montane: Les Alberts, 11.VII.1976 (He). – 1350 m.

This species differs from *E. rustica* only slightly in the male genitalia. It cannot be ruled out that both are conspecific. *E. paligera* is also known from the Alps in Switzerland and from the Pyrenees.

Exorista rustica (Fallén, 1810)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts, 4), 31.VII.1992 (Ts), 7.VIII.1998 (ZiLa). – Montane: Le Lauzet, 31.VII.1992 (Ts, 3), 2.VIII.1992 (Ts, 9), 25.VII.1995 (Ts); N. of Ailefroide, 5.VIII.1983 (Ts, 6), 2.VIII.1985 (Ts), 6.VIII.1997 (Ts); Entre-les-Aigues, 13.VIII.1998 (Ts, 7); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 2); Fournel, 26.V.2002 (Ts, 8); Les Mensals, 11.VIII.1998 (Ts); Brunissard, 4.VIII.1983 (Ts, 6), 11.VII.1991 (Ts); Forêt de Boscodon, 20.V.2002 (Ts), 26.V.2002 (Ts). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts, 2; Zi, 2); S. of l'Argentière, 8.VIII.1997 (Ts); NW. of St-Crépin, 4.VIII.1998 (Ts, 5; ZiLa), 26.V.2002 (Ts); SE. of St-Crépin, 4.VIII.1998 (ZiLa, 2); W. of Mont Dauphin, 14.VIII.1998 (Ts); Mont Dauphin, 28.VII.1996 (ZiLa, 3); St-Clément, 18.VI.1981 (Ts, 7); Crots, 3.VIII.1998 (Ts, 6); Espinasses, 28.V.2002 (Ts); Rourebeau, 29.V.2002 (Ts); Barret, 25.V.2002 (Ts). – 510–1950 m.

A common species on flowers of various Apiaceae, and in yellow pan traps. The specimens included herein consist of all males and some females with strong discal bristles on the abdomen.

Exorista sp. (females of the *E. rustica*-group)

Subalpine: E. of Col du Lautaret, 2.VIII.1992 (Ts); Pré de Mme Carle, 8.VIII.1997 (Ts), 8.VIII.1998 (Ts, 2), 10.VIII.1998 (Ts, 3). – Montane: Col de l'Echelle, 2.VIII.1983 (Ts); Vallouise, 30.VI.1982 (Ts). – Submontane: W. of Mont Dauphin, 14.VIII.1998 (Ts); St-Clément, 18.VI.1981 (Ts). – 880–1900 m.

On flowers. The species of the *Exorista rustica*-group can usually only be separated by the structure of their male genitalia. Females are currently not separable; the

specimens cited above may either belong to *E. rustica*, *mimula*, *nympharum*, or *paligera*.

Chetogena acuminata Rondani, 1859

Montane: Les Chapins, 14.VIII.1998 (Ts, 5). – Submontane: SE. of St-Crépin, 4.VIII.1998 (Ts, 3; ZiLa, 23); Mont Dauphin, 5.VII.1992 (Ts, 9; Zi, 5). – 900–1300 m.

On flowers of *Laserpitium*, *Daucus*, and *Eryngium*.

Chetogena alpestris Tschorsnig, 1997

Alpine: Crête de Chaillol, 25.VII.1995 (Ts). – Montane: Brunissard, 11.VII.1991 (Ts). – 1820–2740 m.

Described by TSCHORSNIG (1997b) from the Hautes-Alpes and the Alps in Switzerland. Additional material has recently been collected in the Italian Alps (pers. comm. P. CERRETTI). The species has been found on flowers of *Laserpitium* or sitting on stones on a mountain top.

Chetogena filipalpis Rondani, 1859

Montane: Col de l'Echelle, 2.VIII.1983 (Ts); Plampinet, 13.VIII.1997 (Ts); Sarserra, 25.VII.1996 (ZiLa, 3); Les Alberts, 16.VII.1976 (He); Montgenèvre, 12.VII.1990 (BARTÁK, 2); La Vachette, 26.VII.1964 (He, 2); Queyrières, 2.VII.1982 (Ts, 2); N. of Ailefroide, 1.VII.1982 (Ts, 2), 17.VI.1983 (Ts), 21.VII.1996 (ZiLa); S. of Col de la Pousterle, 4.VIII.1998 (Ts), 26.V.2002 (Ts); Fournel, 26.V.2002 (Ts, 7); Brunissard, 10.VII.1975 (He), 14.VII.1976 (He, 2), 4.VIII.1983 (Ts), 31.VII.1985 (Ts, 2), 26.VII.1996 (ZiLa); Combe du Queyras, 23.VII.1964 (He); Forêt de Boscodon, 20.V.2002 (Ts), 26.V.2002 (Ts). – Submontane: S. of l'Argentière, 17.VI.1981 (Ts); Mont Dauphin, 13.VII.1997 (ZiLa). – 920–1850 m.

On flowers of Apiaceae (usually *Laserpitium*), on leaves of low vegetation, or in yellow pan traps.

Chetogena micronychia (Masson, 1969)

Submontane: Upaix, 25.V.2002 (Ts). – 740 m.

Swept in a dry meadow from grass and flowering *Euphorbia*. – A rare species that was only known before from the Var department in France.

Chetogena obliquata (Fallén, 1810)

Montane: Prelles, 16.VI.1983 (Ts). – Submontane: Le Gouffre de Gourfouran, 6.VI.1997 (SCHMID-EGGER). – 930–1200 m.

Swept in a dry meadow from grass.

Chetogena tschorsnigi Ziegler, 1999

Montane: Forêt de Boscodon, 16.V.1999 (ZiLa, 5), 20.V.2002 (Ts), 26.V.2002 (Ts, 2). – 1200–1300 m.

Sitting on a path, or in yellow pan traps. – This species was recently described from the above mentioned locality by the second author (ZIEGLER 1999). It is now also known from Switzerland, Germany, Belgium, the Netherlands, Poland, Slovakia, and Italy.

Parasetigena silvestris (Robineau-Desvoidy, 1863)

Montane: Chabre, 24.V.2002 (Ts). – 1300 m.

On leaves of a shrub, hilltopping.

Phorinia aurifrons Robineau-Desvoidy, 1830

Submontane: Crots, 3.VIII.1998 (Ts). – 800 m.

Swept from meadows with flowering *Daucus*, *Pastinaca*, and *Achillea*.

Bessa parallela (Meigen, 1824)

Submontane: S. of l'Argentière, 30.VIII.1976 (He). – 1000 m.

Belida angelicae (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 24.VII.1964 (He), 9.VII.1975 (He), 15.VII.1976 (He), 24.VII.1995 (Ts); Pré de Mme Carle, 8.VIII.1997 (Ts, 4), 8.VIII.1998 (Ts, 5), 10.VIII.1998 (Ts); Les Têtes, 5.VIII.1998 (ZiLa). – Montane: Le Lauzet, 2.VIII.1992 (Ts, 6); Granon, 3.VIII.1983 (Ts, 2); Col de l'Echelle, 2.VIII.1983 (Ts, 15), 1.VIII.1985 (Ts, 56); Chalets du Verney, 25.VII.1996 (ZiLa); Sarserra, 25.VII.1996 (ZiLa); Les Alberts, 9.VII.1976 (He), 1. VIII.1985 (Ts); La Vachette, 26.VII.1964 (He); N. of Ailefroide, 29.VII.1985 (Ts, 10), 2. VIII.1985 (Ts, 11), 21.VII.1996 (ZiLa); Vallouise, 30.VI.1982 (Ts, 2); Brunissard, 31.VII.1985 (Ts, 12); Combe du Queyras, 23.VII.1964 (He). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts, 2; Zi), 27.VII.1992 (ZiLa); S. of l'Argentière, 17.VI.1981 (Ts); SE. of St-Crépin, 4.VIII.1998 (ZiLa); S. of St-Crépin, 5.VII.1992 (Ts). – 900–2050 m.

During this investigation it was found to be a common species on flowers of Apiaceae (*Laserpitium*, *Peucedanum*). – Recorded from La Grave by Ringdahl (1957: 122).

Meigenia dorsalis (Meigen, 1824) (males)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts). – Montane: Col de l'Echelle, 11.VII.1976 (He); Plampinet, 13.VIII.1997 (Ts, 2); Sarserra, 25.VII.1996 (ZiLa); S. of Col de la Pousterle, 4.VIII.1998 (Ts); Brunissard, 26.VII.1996 (ZiLa). – 1400–1950 m.

On flowers of Apiaceae (*Laserpitium*, *Seseli*).

Meigenia grandigena (Pandellé, 1896)

Alpine: Galibier, 16.VII.1997 (ZiLa, 2); Crête de Chaillol, 25.VII.1995 (Ts, 37); NW. of Col du Lautaret, 15.VII.1997 (ZiLa, 35), 7.VIII.1998 (ZiLa, 33); Prorel, 12.VII.1991 (Ts, 3), 22.VII.1996 (ZiLa); Crête du Rocher Blanc, 26.VII.1995 (Ts), 9.VIII.1997 (Ts, 13), 6. VIII.1998 (Ts, 4); Glacier Noir, 10.VIII.1998 (Ts, 113); Glacier Blanc, 12.VIII.1998 (Ts, 42); Crête des Prés des Bancs, 12.VIII.1997 (Ts, 4). – Subalpine: Col du Lautaret, 23.VII.1996 (ZiLa); E. of Col du Lautaret, 15.VII.1976 (He), 31.VII.1983 (Ts), 30.VII.1992 (Ts), 2. VIII.1992 (Ts), 24.VII.1995 (Ts), 25.VII.1995 (Ts), 26.VII.1995 (Ts, 3); Pré de Mme Carle, 8.VIII.1997 (Ts, 8), 10.VIII.1997 (Ts, 2), 8.VIII.1998 (Ts, 8), 10.VIII.1998 (Ts, 4). – Montane: La Grave, 22.VII.1964 (He), 8.VII.1976 (He), 15.VII.1997 (ZiLa); Col de l'Echelle, 1. VIII.1985 (Ts); Chalets du Verney, 25.VII.1996 (ZiLa); N. of Ailefroide, 1.VIII.1983 (Ts, 19), 29.VII.1985 (Ts, 4), 2.VIII.1985 (Ts, 4), 21.VII.1996 (ZiLa); Ailefroide, 7.VII.1975 (He); Brunissard, 13.VII.1997 (ZiLa). – 1450–2740 m (usually distinctly above 1700 m).

On flowers (*Laserpitium*, *Peucedanum*, *Heracleum*, *Alchemilla*); males can also be found in numbers on mountain peaks and ridges sitting on stones.

Meigenia majuscula (Rondani, 1859)

Alpine: La Gardiole, 31.VII.1992 (Ts), 2.VIII.1992 (Ts); Prorel, 27.VII.1992 (ZiLa, 2), 30.VII.1992 (Ts, 4), 22.VII.1996 (ZiLa, 2), 6.VIII.1998 (Ts); Crête du Rocher Blanc, 9. VIII.1997 (Ts, 3). – Montane: Chabre, 21.V.2002 (Ts), 24.V.2002 (Ts, 2). – Submontane: SE. of St-Crépin, 4.VIII.1998 (ZiLa). – 950–2750 m.

Sitting on stones on mountain peaks or ridges; typical hilltopping species. Rarely collected on flowers (*Daucus*).

Meigenia mutabilis (Fallén, 1810) (males)

Alpine: La Gardiole, 31.VII.1992 (Ts). – Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts, 2); Pré de Mme Carle, 8.VIII.1997 (Ts). – Montane: Les Alberts, 8.VII.1975 (He), 12.VII.1975 (He); Briançon, 26.VII.1964 (He); N. of Ailefroide, 29.VII.1985 (Ts); S. of Col de la Pousterle, 9.VIII.1998 (Ts), 26.V.2002 (Ts); Les Mensals, 11.VIII.1998 (Ts); Brunissard, 31.VII.1985 (Ts), 7.VII.1991 (Ts, 2), 11.VII.1991 (Ts, 2), 28.VII.1992 (ZiLa, 4); Forêt de Boscodon, 26.V.2002 (Ts). – Submontane: S. of l'Argentière, 17.VI.1981 (Ts, 2); NW. of St-Crépin, 4.VIII.1998 (Ts). – 920–2750 m (usually below 1800 m).

Most specimens have been collected from flowers of Apiaceae. – The record of *Meigenia bisignata* Meig. by Villeneuve (1905: 12) from the Lautaret (30.VI.–2.VII.1903) may also refer to another species of the *Meigenia mutabilis*-group. The same is true of the record of *Meigenia mutabilis* from the Lautaret and La Grave by Ringdahl (1957: 122).

Meigenia uncinata Mesnil, 1967 (males)

Subalpine: Pré de Mme Carle, 8.VIII.1998 (Ts). – Montane: N. of Ailefroide, 1.VIII.1983 (Ts), 21.VII.1996 (ZiLa, 2). – Submontane: SE. of St-Crépin, 4.VIII.1998 (ZiLa, 4); Mont Dauphin, 5.VII.1992 (Ts), 24.VII.1996 (ZiLa, 2), 28.VII.1996 (ZiLa). – 920–1850 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*, *Daucus*), or sitting on white objects.

Meigenia sp. (females of the *M. mutabilis*-group)

Alpine: Prorel, 22.VII.1996 (ZiLa). – Subalpine: Pré de Mme Carle, 8.VIII.1997 (Ts, 2). – Montane: Queyrières, 2.VII.1982 (Ts, 2); N. of Ailefroide, 1.VII.1982 (Ts), 2.VIII.1985 (Ts, 10); Ailefroide, 7.VII.1975 (He); Entre-les-Aigues, 6.VIII.1997 (Ts), 13.VIII.1998 (Ts); S. of Col de la Pousterle, 26.V.2002 (Ts); Fournel, 14.VIII.1997 (Ts); Brunissard, 4.VIII.1983 (Ts, 2), 5.VII.1992 (Ts). Submontane: E. of l'Argentière, 4.VII.1992 (Ts); NW. of St-Crépin, 4.VIII.1998 (ZiLa); S. of St-Crépin, 5.VII.1992 (Ts); St-Clément, 18.VI.1981 (Ts, 3); Crots, 3.VIII.1998 (Ts, 7). – 800–2570 m.

Usually on flowers of Apiaceae. Females of the *M. mutabilis*-group are currently not separable; the specimens cited above may either belong to *M. mutabilis*, *dorsalis*, or *uncinata*.

Gastrolepta anthracina (Meigen, 1826)

Montane: Briançon, 6.VI.1997 (Schmid-Egger). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts); St-Clément, 18.VI.1981 (Ts); Ventavon, 25.V.2002 (Ts); Laragne-Montéglin, 21.V.2002 (Ts); Rourebeau, 28.V.2002 (Ts). – 510–1200 m.

In yellow pan traps or swept from flowers.

Steleoneura czernyi Stein, 1924

Recorded from (Argentière)-la-Bessée as a parasitoid of *Nothris obscuripennis* Freyer (Gelechiidae) by Cleu (1957: 11).

Medina collaris (Fallén, 1820)

Montane: Brunissard, 4.VIII.1983 (Ts), 26.VII.1996 (ZiLa, 6). – Submontane: S. of l'Argentière, 10.VIII.1997 (Ts). – 950–1850 m.

Swept from flowers (*Laserpitium*).

Medina separata (Meigen, 1824)

Submontane: Upaix, 28.V.2002 (Ts). – 740 m.

In yellow pan traps.

Staurochaeta albocingulata (Fallén, 1820)

Subalpine: E. of Col du Lautaret, 8.VII.1976 (He), 29.VII.1992 (ZiLa), 31.VII.1992 (Ts, 2); Pré de Mme Carle, 8.VIII.1997 (Ts), 8.VIII.1998 (Ts, 4), 10.VIII.1998 (Ts, 2). – Montane: Col de l'Echelle, 2.VIII.1983 (Ts, 2), 1.VIII.1985 (Ts, 4); Sarserra, 25.VII.1996 (ZiLa); Les Alberts, 6.VII.1975 (He, 4), 8.VII.1975 (He), 1.VIII.1985 (Ts); La Vachette, 26.VII.1964 (He); N. of Ailefroide, 1.VIII.1983 (Ts, 19), 5.VIII.1983 (Ts, 3), 29.VII.1985 (Ts, 16), 2.VIII.1985 (Ts), 21.VII.1996 (ZiLa, 2), 10.VIII.1997 (Ts); Entre-les-Aigues, 13.VIII.1998 (Ts, 3); S. of Col de la Pousterle, 9.VIII.1998 (Ts); Vallouise, 5.VII.1975 (He); Brunissard, 4.VIII.1983 (Ts), 31.VII.1985 (Ts, 2), 28.VII.1992 (ZiLa); Combe du Queyras, 26.VII.1996 (ZiLa); Col de Manse, 11.VI.1964 (He). – Submontane: NW. of St-Crépin, 5.VII.1992 (Zi); Mont Dauphin, 28.VII.1996 (ZiLa). – 900–1950 m.

Usually on flowers of Apiaceae.

Lecanipa leucomelas (Meigen, 1824)

Montane: Briançon, 26.VII.1964 (He); Vallouise, 7.VII.1975 (He). – Submontane: Ventavon, 25.V.2002 (Ts); Upaix, 25.V.2002 (Ts); Rourebeau, 28.V.2002 (Ts, 5), 29.V.2002 (Ts, 12). – 510–1400 m.

Usually in yellow pan traps.

Admontia cepelaki (Mesnil, 1961)

Alpine: Galibier, 3.VIII.1992 (Ts); La Gardiole, 2.VIII.1992 (Ts, 2), 27.VII.1995 (Ts, 7), 3.VIII.1997 (Ts, 16), 7.VIII.1998 (Ts, 19); Col de Cibières, 3.VIII.1997 (Ts); Prorel, 6.VIII.1998 (ZiLa, 13); Crête du Rocher Blanc, 9.VIII.1997 (Ts, 10). – Subalpine: E. of Col du Lautaret, 8.VII.1976 (He, 6), 15.VII.1976 (He, 2), 2.VIII.1992 (Ts). – 1900–2750 m.

Sitting on or flying between rock debris or visiting flowers (*Alchemilla*, *Laserpitium*, *Cerastium*).

Admontia grandicornis (Zetterstedt, 1849)

Subalpine: E. of Col du Lautaret, 15.VII.1976 (He); Les Têtes, 2.VIII.1998 (ZiLa). – Montane: Col de l'Echelle, 2.VIII.1983 (Ts, 4); N. of Ailefroide, 29.VII.1985 (Ts, 2), 2.VIII.1985 (Ts); Brunissard, 4.VIII.1983 (Ts, 2), 31.VII.1985 (Ts, 3), 26.VII.1996 (ZiLa), 13.VII.1997 (ZiLa). – Submontane: SE. of St-Crépin, 4.VIII.1998 (ZiLa). – 950–2050 m.

On flowers of Apiaceae or on leaves of low vegetation.

Admontia maculisquama (Zetterstedt, 1859)

Montane: N. of Ailefroide, 1.VIII.1983 (Ts). – 1600–1700 m.

On flowers of Apiaceae.

Admontia podomyia Brauer & Bergenstamm, 1889

Subalpine: Pré de Mme Carle, 10.VIII.1998 (Ts). – 1850 m.

On flowers of *Peucedanum*.

Oswaldia spectabilis (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 9.VII.1975 (He), 29.VII.1992 (Ts, 8; ZiLa), 30.VII.1992 (Ts, 2), 31.VII.1992 (Ts, 3), 2.VIII.1992 (Ts, 4), 24.VII.1995 (Ts); Pré de Mme Carle, 8.VIII.1998 (Ts, 5), 10.VIII.1998 (Ts, 4); Les Têtes, 15.VIII.1997 (Ts). – Montane: Le Lauzet, 31.VII.1992 (Ts), 2.VIII.1992 (Ts, 5), 25.VII.1995 (Ts, 2), 23.VII.1996 (ZiLa); Névache, 2.VIII.1983 (Ts); Col de l'Echelle, 2.VIII.1983 (Ts, 5); Chalets du Verney, 25.VII.1996 (ZiLa, 2); Plampinet, 13.VIII.1997 (Ts, 2); Sarserra, 25.VII.1996 (ZiLa, 2); Les Alberts, 6.VII.1975 (He), 8.VII.1975 (He, 4), 12.VII.1975 (He); Queyrières, 30.VI.1982 (Ts), 2.VII.1982 (Ts), 8.VII.1991 (Ts, 4); N. of Ailefroide, 1.VIII.1983 (Ts, 14), 3.VIII.1983 (Ts), 5.VIII.1983 (Ts, 10), 29.VII.1985 (Ts, 13), 2.VIII.1985 (Ts, 7), 21.VII.1996 (ZiLa, 3), 5.VIII.1997 (Ts, 2), 6.VIII.1997 (Ts), 10.VIII.1997 (Ts); Ailefroide, 7.VII.1975 (He, 2); Vallouise, 5.VII.1975 (He);

Brunissard, 4.VIII.1983 (Ts, 10), 31.VII.1985 (Ts, 6), 7.VII.1991 (Ts, 2), 10.VII.1991 (Ts, 2), 11.VII.1991 (Ts, 8), 5.VII.1992 (Ts). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts); S. of l'Argentière, 17.VI.1981 (Ts, 2); Mont Dauphin, 13.VII.1997 (ZiLa); St-Clément, 18.VI.1981 (Ts, 3). – 880–2050 m.

In the Hautes-Alpes, a common species on flowers (usually Apiaceae).

Ligeria angusticornis (Loew, 1847)

Subalpine: Pré de Mme Carle, 8.VIII.1997 (Ts, 3), 8.VIII.1998 (Ts, 4), 10.VIII.1998 (Ts). – Montane: Col de l'Echelle, 2.VIII.1983 (Ts); Plampinet, 13.VIII.1997 (Ts); Les Alberts, 1.VIII.1985 (Ts); La Vachette, 26.VII.1964 (He, 2); N. of Ailefroide, 1.VIII.1983 (Ts, 3), 3.VIII.1983 (Ts), 5.VIII.1983 (Ts, 2), 2.VIII.1985 (Ts); Entre-les-Aigues, 6.VIII.1997 (Ts), 13.VIII.1998 (Ts, 2); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 2); Brunissard, 4.VIII.1983 (Ts, 2), 31.VII.1985 (Ts, 2), 10.VII.1991 (Ts, 2), 5.VII.1992 (Zi, 5). – Submontane: Crots, 3.VIII.1998 (Ts). – 800–1900 m.

On flowers of Apiaceae (*Seseli*, *Laserpitium*, *Daucus*). – Recorded from (Argentière)-la-Bessée in OILB-list 10: 44 as a parasitoid of *Calyciphora xerodactyla* Zeller (Pterophoridae) (misidentified as *Alucita xanthodactyla* Treitschke).

Picconia incurva (Zetterstedt, 1844)

Subalpine: E. of Col du Lautaret, 23.VII.1996 (ZiLa). – Montane: N. of Ailefroide, 16.VI.1983 (Ts); Entre-les-Aigues, 6.VIII.1997 (Ts); Brunissard, 4.VIII.1983 (Ts, 2); Chabre, 24.V.2002 (Ts). – Submontane; E. of l'Argentière, 4.VII.1992 (Ts). – 1000–1950 m.

Swept from flowers (*Laserpitium* etc.) and grass, 1 specimen hilltopping.

Robinaldia angustata (Villeneuve, 1933)

Submontane: NW. of St-Crépin, 29.VI.1982 (Ts). – 930 m.

Very rare species that was known before from northern Germany and Morocco. The female specimen was collected in cool and stormy weather while it was sitting in grass.

Blondelia nigripes (Fallén, 1810)

Alpine: NW. of Col du Lautaret, 7.VIII.1998 (ZiLa, 2). – Subalpine: E. of Col du Lautaret, 29.VII.1992 (ZiLa), 30.VII.1992 (Ts), 31.VII.1992 (Ts), 2.VIII.1992 (Ts); Pré de Mme Carle, 8.VIII.1998 (Ts). – Montane: Le Lauzet, 31.VII.1992 (Ts, 2), 2.VIII.1992 (Ts, 4); La Vachette, 26.VII.1964 (He); Queyrières, 2.VII.1982 (Ts); N. of Ailefroide, 29.VII.1985 (Ts, 3); Ailefroide, 10.VII.1976 (He), 21.VII.1996 (ZiLa); Col de la Pousterle, 5.VIII.1998 (ZiLa); S. of Col de la Pousterle, 9.VIII.1998 (Ts); Puy-St-Vincent, 12.VIII.1997 (Ts, 4); Les Prés, 21.VII.1996 (ZiLa); Brunissard, 4.VIII.1983 (Ts, 25), 31.VII.1985 (Ts, 12), 7.VII.1991 (Ts), 11.VII.1991 (Ts), 26.VII.1996 (ZiLa, 5); Forêt de Boscodon, 1.VII.1997 (ZiLa, 4), 26.V.2002 (Ts, 2). – Submontane: S. of l'Argentière, 10.VIII.1997 (Ts); Crots, 3.VIII.1998 (Ts, 2); Vallée de Boscodon, 16.V.1999 (ZiLa, 3). – 800–2190 m.

Common species on flowers of Apiaceae or on leaves of low vegetation. – Recorded from La Grave by RINGDAHL (1957: 122).

Compsilura concinnata (Meigen, 1824)

Montane: Brunissard, 10.VII.1991 (Ts). – Submontane: SE. of St-Crépin, 4.VIII.1998 (ZiLa, 3); Mont Dauphin, 5.VII.1992 (Ts, 2; Zi), 24.VII.1996 (ZiLa, 40), 28.VII.1996 (ZiLa, 2); Crots, 3.VIII.1998 (Ts); Gap, 11.VII.1990 (BARTÁK); Upaix, 19.V.2002 (Ts). – 700–1850 m.

On flowers (*Laserpitium*, *Daucus*) or in yellow pan traps.

Acemya acuticornis (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts). – Montane: Le Lauzet, 2.VIII.1992 (Ts); Col de l'Echelle, 2.VIII.1983 (Ts), 1.VIII.1985 (Ts); Les Alberts, 6.VII.1975 (He); Villard

St-Pancrace, 23.VII.1964 (He); N. of Ailefroide, 1.VII.1982 (Ts), 16.VI.1983 (Ts, 6), 17.VI.1983 (Ts, 23), 2.VIII.1985 (Ts); S. of Col de la Pousterle, 9.VIII.1998 (Ts), 26.V.2002 (Ts); Brunissard, 4.VIII.1983 (Ts), 31.VII.1985 (Ts, 8), 7.VII.1991 (Ts), 11.VII.1991 (Ts, 5), 5.VII.1992 (Ts, 2), 28.VII.1992 (ZiLa). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts); SE. of St-Crépin, 4.VIII.1998 (ZiLa); St-Clément, 18.VI.1981 (Ts); Crots, 3.VIII.1998 (Ts, 4). – 800–1950 m.

Swept from grass and flowers (*Laserpitium*, *Daucus* etc.).

Acemya pyrrhocera (Villeneuve, 1922)

Montane: Prelles, 1.VII.1982 (Ts, 3). – Submontane: E. of l'Argentière, 4.VII.1992 (Zi); Mont Dauphin, 5.VII.1992 (Zi). – 920–1170 m.

Three females were collected by the first author in the early hours of the morning, sitting on rock debris. The second author collected his specimens on stones or from flowers of *Laserpitium*.

Acemya rufitibia (von Roser, 1840)

Montane: Col de l'Echelle, 1.VIII.1985 (Ts); Les Alberts, 6.VII.1975 (He); N. of Ailefroide, 5.VIII.1983 (Ts), 29.VII.1985 (Ts); Brunissard, 4.VIII.1983 (Ts, 2), 31.VII.1985 (Ts, 3). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts; Zi, 2); NW. of St-Crépin, 17.VI.1983 (Ts). – 920–1850 m.

Swept from grass and flowers.

Ethilla aemula (Meigen, 1824)

Montane: Vallouise, 25.VII.1964 (He). – 1200 m.

Paratryphera barbatula (Rondani, 1859)

Montane: Col de l'Echelle, 2.VIII.1983 (Ts, 3); Les Alberts, 1.VIII.1985 (Ts); N. of Ailefroide, 21.VII.1996 (ZiLa, 3); Brunissard, 11.VII.1991 (Ts, 2), 5.VII.1992 (Zi), 26.VII.1996 (ZiLa). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts); SE. of St-Crépin, 4.VIII.1998 (ZiLa); Mont Dauphin, 24.VII.1996 (ZiLa); Crots, 3.VIII.1998 (Ts, 3). – 800–1850 m.

Swept from flowers.

Paratryphera palpalis (Rondani, 1859)

Montane: Chabre, 21.V.2002 (Ts, 8). – 1320 m.

All specimens of this rare species were collected on the leaves of a single shrub (probably *Amelanchier*) while they were hilltopping. – This male series is of some interest because it shows a remarkable variation: 2 upper orbital bristles are present in 7 of the 8 specimens, whereas 1 specimen has only a single isolated upper orbital bristle; the palp is yellow at least on its tip in 7 of the 8 specimens, but it is entirely black in 1 specimen. The possibility that *Paratryphera mesnili* Herting could be a synonym of *P. palpalis* cannot be ruled out, but further investigations are necessary to solve this question.

Atylomyia loewi Brauer, 1898

Montane: Col de l'Echelle, 2.VIII.1983 (Ts); Les Alberts, 8.VII.1975 (He), 16.VII.1976 (He, 2); S. of Col de la Pousterle, 4.VIII.1998 (Ts); Vallouise, 25.VII.1964 (He), 11.VII.1975 (He, 2); Fournel, 26.V.2002 (Ts). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts); S. of l'Argentière, 10.VIII.1997 (Ts, 5); NW. of St-Crépin, 4.VIII.1998 (Ts; ZiLa); SE. of St-Crépin, 4.VIII.1998 (Ts; ZiLa); Mont Dauphin, 28.VII.1996 (ZiLa, 2); Prunières, 3.VIII.1998 (ZiLa); Crots, 3.VIII.1998 (Ts); Barret, 25.V.2002 (Ts, 2). – 650–1680 m.

Swept from low vegetation containing flowers of Apiaceae, *Achillea* and *Thymus*.

Smidtia amoena (Meigen, 1824)

Montane: Forêt de Boscodon, 26.V.2002 (Ts). – 1200 m.

In yellow pan traps.

Smidtia conspersa (Meigen, 1824)

Montane: Fournel, 26.V.2002 (Ts); Montagne de St-Genis, 30.V.2002 (Ts, 6); Bois de Faye, 29.V.2002 (Ts); Chabre, 21.V.2002 (Ts, 10). – 1100–1450 m.

Most specimens were collected on leaves of trees and shrubs while they were hill-topping.

Winthemia erythrura (Meigen, 1838)

Subalpine: E. of Col du Lautaret, 24.VII.1964 (He). – Montane: Brunissard, 26.VII.1996 (ZiLa), 13.VII.1997 (ZiLa, 4). – Submontane: St-Clément, 18.VI.1981 (Ts). – 880–2000 m.

On flowers (*Laserpitium*).

Winthemia jacentkovskyi Mesnil, 1949

Montane: Chabre, 21.V.2002 (Ts). – 1100 m.

In yellow pan traps.

Winthemia pilosa (Villeneuve, 1910)

Submontane: Prunières, 3.VIII.1998 (ZiLa); Upaix, 25.V.2002 (Ts), 28.V.2002 (Ts). – 740–850 m.

Swept from grass, on flowers of Apiaceae or in yellow pan traps. – This rare species was known before from France (Var, Vaucluse) and the Iberian Peninsula.

Winthemia quadripustulata (Fabricius, 1794)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts); Pré de Mme Carle, 8.VIII.1998 (Ts). – Montane: Queyrières, 30.VI.1982 (Ts), 2.VII.1982 (Ts, 2), 8.VII.1991 (Ts, 2); N. of Ailefroide, 1.VII.1982 (Ts), 17.VI.1983 (Ts), 5.VIII.1983 (Ts), 21.VII.1996 (ZiLa, 2); Puy-St-Vincent, 12.VIII.1997 (Ts); Vallouise, 5.VII.1975 (He), 7.VII.1975 (He); Les Mensals, 7.VIII.1997 (Ts), 11.VIII.1998 (Ts); Brunissard, 4.VIII.1983 (Ts, 3), 31.VII.1985 (Ts, 3), 7.VII.1991 (Ts, 2), 10.VII.1991 (Ts, 2), 11.VII.1991 (Ts, 4), 28.VII.1992 (ZiLa, 2), 13.VII.1997 (ZiLa, 4); Forêt de Boscodon, 1.VII.1997 (ZiLa, 4), 20.V.2002 (Ts, 2), 26.V.2002 (Ts, 5). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts); W. of Mont Dauphin, 14.VIII.1998 (Ts); Crots, 3.VIII.1998 (Ts); Vallée de Boscodon, 16.V.1999 (ZiLa). – 800–1950 m.

On flowers of Apiaceae, on leaves of low vegetation, or in yellow pan traps.

Nemorilla maculosa (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts, 3; ZiLa), 30.VII.1992 (Ts, 2), 31.VII.1992 (Ts, 5), 2.VIII.1992 (Ts, 2); Pré de Mme Carle, 8.VIII.1997 (Ts), 8.VIII.1998 (Ts, 14), 10.VIII.1998 (Ts, 7); Les Têtes, 5.VIII.1998 (ZiLa). – Montane: Combe de Malaval, 8.VII.1976 (He); Col de l'Echelle, 2.VIII.1983 (Ts); Plampinet, 13.VIII.1997 (Ts); Les Alberts, 11.VII.1976 (He); Montgenèvre, 12.VII.1990 (Bartàk); Briançon, 26.VII.1964 (He); Queyrières, 30.VI.1982 (Ts), 2.VII.1982 (Ts, 7); N. of Ailefroide, 30.VI.1982 (Ts), 1.VII.1982 (Ts, 8), 17.VI.1983 (Ts), 1.VIII.1983 (Ts), 29.VII.1985 (Ts), 10.VIII.1997 (Ts); S. of Col de la Pousterle, 4.VIII.1998 (Ts), 9.VIII.1998 (Ts, 5); Vallouise, 5.VII.1975 (He); Fournel, 26.V.2002 (Ts, 4); Fressinières, 13.VII.1976 (He); Brunissard, 31.VII.1985 (Ts, 8), 10.VII.1991 (Ts), 11.VII.1991 (Ts), 5.VII.1992 (Zi), 26.VII.1996 (ZiLa), 28.VII.1992 (ZiLa); Forêt de Boscodon, 20.V.2002 (Ts), 26.V.2002 (Ts, 4). – Submontane: St-Clément, 18.VI.1981 (Ts, 2); Crots, 3.VIII.1998 (Ts); Upaix, 29.V.2002 (Ts). – 740–2050 m.

In the Hautes-Alpes this is a common species on flowers or in yellow pan traps. Several specimens were collected while they were sucking sweat from the human

body or while they were sitting on white objects. – Recorded from the Lautaret (30.VI.–2.VII.1903) by VILLENEUVE (1905: 12, 1908a: 100), and from Montgenèvre as a parasitoid of *Exapate duratella* Heyden and *Zeiraphera diniana* Guenée (Tortricidae) in OILB-list 11: 44. The record of *Nemorilla floralis* from La Grave and the Lautaret by RINGDAHL (1957: 122) most probably also belongs to this species.

Aplomya confinis (Fallén, 1820)

Alpine: La Gardiole, 31.VII.1992 (Ts), 27.VII.1995 (Ts); Col de Cibières, 3.VIII.1997 (Ts); Prorel, 27.VII.1992 (ZiLa, 2), 30.VII.1992 (Ts, 2), 22.VII.1996 (ZiLa); Crête du Rocher Blanc, 9.VIII.1997 (Ts). – Subalpine: E. of Col du Lautaret, 24.VII.1995 (Ts); Pré de Mme Carle, 8.VIII.1998 (Ts, 2), 10.VIII.1998 (Ts, 3); Les Têtes, 5.VIII.1998 (ZiLa). – Montane: Col de l'Echelle, 2.VIII.1983 (Ts, 2); Les Alberts, 1.VIII.1985 (Ts); Queyrières, 1.VII.1982 (Ts), 2.VII.1982 (Ts, 4); N. of Ailefroide, 5.VIII.1983 (Ts), 21.VII.1996 (ZiLa); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 3); Vallouise, 25.VII.1964 (He), 7.VII.1975 (He), 11.VII.1975 (He); Brunissard, 31.VII.1985 (Ts, 2), 28.VII.1992 (ZiLa); Col de Manse, 11.VI.1964 (He); Montagne de St-Genis, 30.V.2002 (Ts, 2). – Submontane: E. of l'Argentière, 12.VII.1976 (He); S. of l'Argentière, 10.VIII.1997 (Ts); NW. of St-Crépin, 4.VIII.1998 (Ts); SE. of St-Crépin, 4.VIII.1998 (ZiLa); Mont Dauphin, 5.VII.1992 (Ts, 3; Zi), 24.VII.1996 (ZiLa, 4), 13.VII.1997 (ZiLa, 3); Upaix, 20.V.2002 (Ts), 25.V.2002 (Ts, 5), 27.V.2002 (Ts, 5), 28.V.2002 (Ts), 29.V.2002 (Ts, 2). – 740–2750 m.

On flowers (mainly *Laserpitium*) or in yellow pan traps. Males were occasionally collected on mountain peaks while they were sitting on stones or on leaves.

Phebellia nigripalpis (Robineau-Desvoidy, 1847)

Montane: Les Alberts, 1.VIII.1985 (Ts); Briançon, 6.VI.1997 (SCHMID-EGGER); Prelles, 16.VI.1983 (Ts); Vallouise, 7.VII.1975 (He); Fournel, 26.V.2002 (Ts, 9); Brunissard, 28.VII.1992 (ZiLa, 2), 26.VII.1996 (ZiLa); Forêt de Boscodon, 20.V.2002 (Ts, 2), 26.V.2002 (Ts, 6). – Submontane: NW. of St-Crépin, 26.V.2002 (Ts, 31); Mont Dauphin, 5.VII.1992 (Ts); Espinasses, 28.V.2002 (Ts); Ventavon, 25.V.2002 (Ts, 6); Rourebeau, 28.V.2002 (Ts, 7), 29.V.2002 (Ts, 3). – 510–1360 m.

In yellow pan traps, on flowers, or swept from grass. – The records of *Parexorista agnata* Rond. by VILLENEUVE (1905: 12, 1908a: 99) from the Lautaret (30.VI.–2.VII.1903) may refer to *P. nigripalpis* or – more likely – to *P. strigifrons*.

Phebellia pauciseta (Villeneuve, 1908)

Montane: Forêt de Boscodon, 26.V.2002 (Ts). – 1200 m.

In yellow pan traps.

Phebellia strigifrons (Zetterstedt, 1838)

Alpine: Crête de Chaillol, 25.VII.1995 (Ts, 2); Le Petit Aréa, 1.VIII.1992 (Ts); La Gardiole, 31.VII.1992 (Ts, 4), 27.VII.1995 (Ts, 8), 3.VIII.1997 (Ts, 4); Prorel, 12.VII.1991 (Ts, 2); Crête du Rocher Blanc, 26.VII.1995 (Ts, 6). – Montane: Ailefroide, 7.VII.1975 (He); Brunissard, 10.VII.1975 (He). – 1450–2750 m (usually above 2500 m).

Rare species with arcto-alpine distribution. Most specimens were collected on mountain peaks while they were sitting on low vegetation or on stones.

Phebellia villica (Zetterstedt, 1838)

Montane: N. of Ailefroide, 21.VII.1996 (ZiLa). – 1600 m.

On flowers of *Laserpitium*.

Ptesiomyia alacris (Meigen, 1824)

Montane: N. of Ailefroide, 1.VII.1982 (Ts, 4), 16.VI.1983 (Ts), 17.VI.1983 (Ts). – Submon-

tane: Le Gouffre de Gourfouran, 6.VI.1997 (SCHMID-EGGER); Vallée de Boscodon, 16.V.1999 (ZiLa). – 920–1700 m.

Swept from low vegetation.

Nilea brigantina Herting, 1977

Montane: Col de l'Echelle, 11.VII.1976 (He); Plampinet, 13.VIII.1997 (Ts); Ailefroide, 7.VII.1975 (He); Fressinières, 13.VII.1976 (He); Brunissard, 14.VII.1976 (He, 2), 4.VIII.1983 (Ts). – 1150–1850 m.

On flowers of Apiaceae (*Laserpitium*, *Seseli*), on leaves of *Alnus* or swept from grass. – Rare species that is only known from the Hautes-Alpes.

Phonomyia aristata (Rondani, 1861)

Submontane: Mont Dauphin, 5.VII.1992 (Zi), 28.VII.1996 (ZiLa). – 920 m.

On flowers of *Laserpitium*.

Tlephusa cincinna (Rondani, 1859)

Montane: La Grave, VII. (VILLENEUVE, in coll. RIEDEL); Sarserra, 25.VII.1996 (ZiLa); Les Alberts, 11.VII.1976 (He); Briançon, 26.VII.1964 (He); Villard St-Pancrace, 23.VII.1964 (He); Queyrières, 2.VII.1982 (Ts), 8.VII.1991 (Ts, 2); N. of Ailefroide, 1.VIII.1983 (Ts), 5.VIII.1983 (Ts, 6), 2.VIII.1985 (Ts, 2), 21.VII.1996 (ZiLa, 3); Ailefroide, 10.VII.1976 (He); Vallouise, 25.VII.1964 (He, 2); Les Mensals, 11.VIII.1998 (Ts, 2); Combe du Queyras, 23.VII.1964 (He); Forêt de Boscodon, 26.V.2002 (Ts, 2). – Submontane: S. of l'Argentière, 17.VI.1981 (Ts). – 950–1700 m.

On flowers of Apiaceae (usually *Laserpitium*).

Epicampocera succincta (Meigen, 1824)

Montane: Montagne de St-Genis, 30.V.2002 (Ts). – Submontane: Ventavon, 25.V.2002 (Ts). – 640–1430 m.

In yellow pan traps or on leaves, hilltopping.

Buquetia musca Robineau-Desvoidy, 1847

Subalpine: Pré de Mme Carle, 10.VIII.1998 (Ts). – Montane: Sarserra, 25.VII.1996 (ZiLa); Les Alberts, 9.VII.1976 (He), 16.VII.1976 (He), 1.VIII.1985 (Ts); Brunissard, 31.VII.1985 (Ts, 3), 28.VII.1992 (ZiLa). – Submontane: Espinasses, 28.V.2002 (Ts, 2). – 700–1850 m.

On flowers (*Laserpitium*, *Peucedanum*). – Recorded from Briançon as a parasitoid of *Papilio machaon* Linnaeus (Papilionidae) by FORD et al. (2000: 28).

Phryxe hirta (Bigot, 1880)

Alpine: Galibier, 3.VIII.1992 (Ts); NW. of Col du Lautaret, 7.VIII.1998 (ZiLa). – Subalpine: E. of Col du Lautaret, 22.VII.1964 (He), 24.VII.1964 (He), 9.VII.1975 (He), 29.VII.1992 (Ts, 2; ZiLa, 6), 31.VII.1992 (Ts, 4), 2.VIII.1992 (Ts), 7.VIII.1998 (ZiLa, 4). – Montane: La Grave, 22.VII.1964 (He); Col de l'Echelle, 2.VIII.1983 (Ts, 3); Montgenèvre, 8.VII.1975 (He); Briançon, 6.VI.1997 (SCHMID-EGGER); Villard St-Pancrace, 23.VII.1964 (He, 3); S. of Col de la Pousterle, 4.VIII.1998 (Ts), 9.VIII.1998 (Ts, 7); Vallouise, 25.VII.1964 (He, 3), 5.VII.1975 (He); Les Mensals, 11.VIII.1998 (Ts, 2); Brunissard, 4.VIII.1983 (Ts), 7.VII.1991 (Ts, 2), 5.VII.1992 (Zi); Combe du Queyras, 23.VII.1964 (He); Forêt de Boscodon, 1.VII.1997 (ZiLa); Col de Manse, 11.VI.1964 (He, 3). – Submontane: E. of l'Argentière, 23.VII.1964 (He, 2), 25.VII.1964 (He, 3), 4.VII.1992 (Ts; Zi); SE. of St-Crépin, 4.VIII.1998 (ZiLa, 11); St-Clément, 18.VI.1981 (Ts); Prunières, 1.VII.1997 (ZiLa), 3.VIII.1998 (ZiLa, 3); Barret, 25.V.2002 (Ts, 2). – 650–2400 m (usually below 2000 m).

On flowers of Apiaceae.

Phryxe magnicornis (Zetterstedt, 1838)

Subalpine: E. of Col du Lautaret, 9.VII.1975 (He), 30.VII.1992 (Ts); Pré de Mme Carle, 8.VIII.1998 (Ts, 3), 10.VIII.1998 (Ts, 3). – Montane: Le Lauzet, 23.VII.1996 (ZiLa, 4); N. of Ailefroide, 3.VIII.1983 (Ts), 29.VII.1985 (Ts, 3), 2.VIII.1985 (Ts, 13), 21.VII.1996 (ZiLa), 5.VIII.1997 (Ts, 2), 6.VIII.1997 (Ts, 7); Ailefroide, 7.VII.1975 (He, 2); Entre-les-Aigues, 13.VIII.1998 (Ts, 2); Brunissard, 4.VIII.1983 (Ts), 31.VII.1985 (Ts, 4), 26.VII.1996 (ZiLa, 6). – Submontane: W. of Mont Dauphin, 14.VIII.1998 (Ts). – 900–2000 m.

On flowers of Apiaceae. – Recorded from Briançon and Montgenèvre as a parasitoid of *Erannis defoliaria* Clerck (Geometridae) and *Zeiraphera diniana* Guenée (Tortricidae) in OILB-list 11: 45, from the Col du Lautaret as a parasitoid of *Zygaena ?filipendulae* Linnaeus, and from the Col de Vars (2000 m) as a parasitoid of *Zygaena* sp. (Zygaenidae) by Ford et al. (2000: 29).

Phryxe nemea (Meigen, 1824)

Montane: Brunissard, 28.VII.1992 (ZiLa). – 1820 m.

On flowers of *Laserpitium*.

Phryxe prima (Brauer & Bergenstamm, 1889)

Montane: Le Lauzet, 2.VIII.1992 (Ts); Briançon, 26.VII.1964 (He); Queyrières, 1.VII.1982 (Ts); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 2); Vallouise, 25.VII.1964 (He); Brunissard, 26.VII.1996 (ZiLa). – Submontane: SE. of St-Crépin, 4.VIII.1998 (ZiLa, 2); Mont Dauphin, 24.VII.1996 (ZiLa, 5); Prunières, 1.VII.1997 (ZiLa), 3.VIII.1998 (ZiLa). – 850–1820 m.

On flowers of Apiaceae (*Laserpitium*, *Daucus*).

Phryxe setifacies (Villeneuve, 1910)

Montane: Les Alberts, 1.VIII.1985 (Ts); Fournel, 14.VIII.1997 (Ts, 2). – Submontane: E. of l'Argentière, 10.VII.1975 (He); S. of l'Argentière, 30.VIII.1976 (He). – 950–1400 m.

Collected from flowers or while sucking sweat from the human body. – Described by Villeneuve (1910: 89) as *Ceratochaeta setifacies* from Serres (1.VIII.1896, leg. Lombard).

Phryxe tenebrata Herting, 1977

Subalpine: E. of Col du Lautaret, 15.VII.1976 (He). – Montane: N. of Ailefroide, 29.VII.1985 (Ts, 3), 2.VIII.1985 (Ts); Ailefroide, 7.VII.1975 (He, 4); Brunissard, 31.VII.1985 (Ts, 8), 26.VII.1996 (ZiLa, 2). – 1450–1900 m.

On flowers of Apiaceae. Originally described from the Hautes-Alpes, this rare species is known also from the Alps in Switzerland (Valais) and from northern Sweden.

Phryxe vulgaris (Fallén, 1810)

Alpine: NW. of Col du Lautaret, 7.VIII.1998 (ZiLa). – Subalpine: E. of Col du Lautaret, 9.VII.1975 (He), 15.VII.1976 (He), 2.VIII.1992 (Ts); Pré de Mme Carle, 8.VIII.1998 (Ts, 2), 10.VIII.1998 (Ts); Les Têtes, 5.VIII.1998 (ZiLa). – Montane: La Grave, 15.VII.1997 (ZiLa); Névache, 2.VIII.1983 (Ts); Col de l'Echelle, 11.VII.1976 (He), 2.VIII.1983 (Ts, 10), 1.VIII.1985 (Ts); Plampinet, 13.VIII.1997 (Ts); Sarserra, 25.VII.1996 (ZiLa); Les Alberts, 16.VII.1976 (He), 1.VIII.1985 (Ts); Queyrières, 30.VI.1982 (Ts, 4), 1.VII.1982 (Ts), 2.VII.1982 (Ts, 8); N. of Ailefroide, 1.VIII.1983 (Ts), 29.VII.1985 (Ts, 4), 2.VIII.1985 (Ts, 4), 21.VII.1996 (ZiLa, 2), 6.VIII.1997 (Ts, 2), 10.VIII.1997 (Ts); Ailefroide, 7.VII.1975 (He); Entre-les-Aigues, 6.VIII.1997 (Ts), 13.VIII.1998 (Ts); Col de la Pousterle, 2.VIII.1998 (ZiLa); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 4); Fressinières, 13.VII.1976 (He); Brunissard, 4.VIII.1983 (Ts, 8), 31.VII.1985 (Ts, 2), 7.VII.1991 (Ts), 10.VII.1991 (Ts), 11.VII.1991 (Ts, 2), 26.VII.1996 (ZiLa, 2), 13.VII.1997, 4.VIII.1997 (Ts); Combe du Queyras, 23.VII.1964 (He).

– Submontane: E. of l'Argentière, 4.VII.1992 (Ts, 2); S. of l'Argentière, 10.VIII.1997 (Ts); SE. of St-Crépin, 4.VIII.1998 (ZiLa); W. of Mont Dauphin, 14.VIII.1998 (Ts); Crots, 3. VIII.1998 (Ts, 4). – 800–2190 m.

Common species on flowers of Apiaceae. The record of *Phryxe nemea* ex *Euchloe ausonia* Huebner (Pieridae) from the Col du Lautaret by FORD et al. (2000: 29) is erroneous; it refers to *Phryxe vulgaris*.

Periarchiclops scutellaris (Fallén, 1820)

Alpine: Galibier, 24.VII.1964 (He); Prorel, 27.VII.1992 (ZiLa); Crête du Rocher Blanc, 6.VIII.1998 (Ts). – Subalpine: E. of Col du Lautaret, 29.VII.1992 (ZiLa); Les Têtes, 5. VIII.1998 (ZiLa). – Montane: N. of Ailefroide, 1.VII.1982 (Ts, 3), 21.VII.1996 (ZiLa). – 1600–2570 m.

On flowers of *Laserpitium* or swept from low vegetation. Several males were collected while they were sitting on stones on a mountain peak.

Pseudoperichaeta nigrolineata (Walker, 1853)

Montane: Forêt de Boscodon, 26.V.2002 (Ts). – 1200 m.

In yellow pan traps.

Pseudoperichaeta palesoidea (Robineau-Desvoidy, 1830)

Alpine: NW. of Col du Lautaret, 7.VIII.1998 (ZiLa, 8). – Subalpine: Col du Lautaret, 23.VII.1996 (ZiLa); E. of Col du Lautaret, 1.VIII.1925 (VILLENEUVE, in coll. RIEDEL), 4. VIII.1925 (VILLENEUVE, in coll. RIEDEL), 22.VII.1964 (He, 2), 24.VII.1964 (He, 3), 8.VII.1976 (He), 29.VII.1992 (Ts, 3; ZiLa), 30.VII.1992 (Ts), 31.VII.1992 (Ts, 4), 2.VIII.1992 (Ts, 4); Pré de Mme Carle, 8.VIII.1998 (Ts, 4); Les Têtes, 5.VIII.1998 (ZiLa). – Montane: La Grave, 22.VII.1964 (He); Névache, 2.VIII.1983 (Ts); Col de l'Echelle, 2.VIII.1983 (Ts, 6); Les Alberts, 16.VII.1976 (He), 1.VIII.1985 (Ts, 3); Montgenèvre, 12.VII.1990 (BARTÁK, 2); Queyrières, 2.VII.1982 (Ts, 2); N. of Ailefroide, 30.VI.1982 (Ts), 1.VII.1982 (Ts), 1.VIII.1983 (Ts, 18), 5.VIII.1983 (Ts, 24), 29.VII.1985 (Ts), 2.VIII.1985 (Ts), 21.VII.1996 (ZiLa, 3), 6. VIII.1997 (Ts), 10.VIII.1997 (Ts); Ailefroide, 7.VII.1975 (He), 10.VII.1976 (He, 2); Entre-les-Aigues, 6.VIII.1997 (Ts), 13.VIII.1998 (Ts, 4); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 8); Fournel, 26.V.2002 (Ts); Le Laus, 14.VII.1976 (He); Brunissard, 10.VII.1975 (He), 14.VII.1976 (He, 5), 4.VIII.1983 (Ts, 28), 31.VII.1985 (Ts, 15), 7.VII.1991 (Ts, 3), 10.VII.1991 (Ts, 2), 11.VII.1991 (Ts, 16), 5.VII.1992 (Ts; Zi, 2), 28.VII.1992 (ZiLa, 8), 26.VII.1996 (ZiLa, 9), 4.VIII.1997 (Ts, 2); Forêt de Boscodon, 20.V.2002 (Ts), 26.V.2002 (Ts). – 1200–2300 m (usually below 2000 m).

A common species during this investigation on flowers (Apiaceae, *Euphorbia*); only a single specimen has been collected on a mountain peak. – Recorded as *Anoxycampta palesoidea* from La Grave by RINGDAHL (1957: 122), and from the Galibier (2300 m) as reared from an unidentified microlepidopteran in a rolled leaf of *Centaurea* by FORD et al. (2000: 31). The record of VILLENEUVE (1908a: 100) of *Blepharidea stridens* Rond. from the Lautaret probably refers to this species.

Catagonia aberrans (Rondani, 1859)

Submontane: Mont Dauphin, 28.VII.1996 (ZiLa, 2); St-Clément, 18.VI.1981 (Ts). – 880–920 m.

On flowers of *Laserpitium*.

Lydella grisescens Robineau-Desvoidy, 1830

Submontane: S. of St-Crépin, 5.VII.1992 (Ts); Mont Dauphin, 5.VII.1992 (Ts, 2; Zi); Crots, 3.VIII.1998 (Ts); Upaix, 25.V.2002 (Ts). – 740–1000 m.

On flowers of Apiaceae (*Laserpitium*, *Daucus*, *Pastinaca*), or swept from grass.

Lydella stabulans (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts, 2), 30.VII.1992 (Ts), 31.VII.1992 (Ts), 7.VIII.1998 (ZiLa). – Montane: Le Lauzet, 2.VIII.1992 (Ts, 2); Ailefroide, 7.VII.1975 (He). – 1450–1950 m.

On flowers of *Laserpitium* or on leaves of low vegetation.

Chetina setigena Rondani, 1856

Submontane: Upaix, 25.V.2002 (Ts, 4), 27.V.2002 (Ts, 2). – 740 m.

Swept in a dry meadow from grass and flowering *Euphorbia*.

Cadurciella tritaeniata (Rondani, 1859)

Subalpine: E. of Col du Lautaret, 9.VII.1975 (He), 30.VII.1992 (Ts), 14.VII.1997 (ZiLa). – Montane: N. of Ailefroide, 29.VII.1985 (Ts, 2); Brunissard, 31.VII.1985 (Ts, 7), 7.VII.1991 (Ts), 10.VII.1991 (Ts), 11.VII.1991 (Ts); Col de Manse, 11.VI.1964 (He). – Submontane: Espinasses, 28.V.2002 (Ts). – 700–1950 m.

On flowers of *Laserpitium*. – Recorded from La Grave by Ringdahl (1957: 122).

Drino atropivora (Robineau-Desvoidy, 1830)

Submontane: S. of l'Argentière, 14.VIII.1998 (Ts); Crots, 3.VIII.1998 (Ts). – 800–1000 m.

On flowers of *Daucus*.

Drino inconspicua (Meigen, 1830)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (ZiLa). – Montane: Col de l'Echelle, 1.VIII.1985 (Ts, 2); Sarserra, 25.VII.1996 (ZiLa); Les Alberts, 6.VII.1975 (He, 3), 12.VII.1975 (He), 9.VII.1976 (He), 1.VIII.1985 (Ts); La Vachette, 26.VII.1964 (He); Queyrières, 2.VII.1982 (Ts); N. of Ailefroide, 2.VIII.1985 (Ts, 5), 21.VII.1996 (ZiLa, 2); S. of Col de la Pousterle, 9.VIII.1998 (Ts); Vallouise, 25.VII.1964 (He), 7.VII.1975 (He); Brunissard, 4.VIII.1983 (Ts). – Submontane: E. of l'Argentière, 23.VII.1964 (He); Mont Dauphin, 24.VII.1996 (ZiLa); St-Clément, 18.VI.1981 (Ts). – 880–1950 m.

On flowers (usually *Laserpitium*). – Recorded from (Argentière)-la-Bessée as a parasitoid of *Graellsia isabellae* Oberthuer (Saturniidae) by Cleu (1925: 126) [as *Argyrophylax*].

Drino lota (Meigen, 1824)

Submontane: St-Clément, 18.VI.1981 (Ts, 2). – 880 m.

On flowers.

Drino vicina (Zetterstedt, 1849)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts), 31.VII.1992 (Ts). – Montane: Le Lauzet, 2.VIII.1992 (Ts), 23.VII.1996 (ZiLa); Col de l'Echelle, 1.VIII.1985 (Ts); Queyrières, 30.VI.1982 (Ts), 2.VII.1982 (Ts, 3), 8.VII.1991 (Ts, 2); Vallouise, 11.VII.1975 (He); Brunissard, 11.VII.1991 (Ts), 28.VII.1992 (ZiLa). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts, 4; Zi, 5); Mont Dauphin, 5.VII.1992 (Ts, 6; Zi, 2); St-Clément, 18.VI.1981 (Ts). – 880–1950 m.

On flowers of *Laserpitium*. – Recorded from La Grave by Ringdahl (1957: 122).

Amelibaea tultschensis (Brauer & Bergenstamm, 1891)

Subalpine: E. of Col du Lautaret, 9.VII.1975 (He, 3), 29.VII.1992 (Ts), 30.VII.1992 (Ts, 2), 31.VII.1992 (Ts, 5), 24.VII.1995 (Ts), 20.VII.1996 (ZiLa), 23.VII.1996 (ZiLa), 14.VII.1997 (ZiLa, 3). – Montane: Brunissard, 7.VII.1991 (Ts, 2), 11.VII.1991 (Ts), 5.VII.1992 (Zi), 13.VII.1997 (ZiLa). – 1800–1950 m.

On flowers of *Laserpitium* or swept from low vegetation.

Huebneria affinis (Fallén, 1810)

Subalpine: Pré de Mme Carle, 8.VIII.1998 (Ts), 10.VIII.1998 (Ts, 2). – Montane: Le Lauzet, 2.VIII.1992 (Ts); Queyrières, 1.VII.1982 (Ts); N. of Ailefroide, 1.VIII.1983 (Ts), 2.VIII.1985 (Ts, 2); Vallouise, 7.VII.1975 (He); Les Mensals, 11.VIII.1998 (Ts, 2); Brunissard, 4.VIII.1983 (Ts), 26.VII.1996 (ZiLa, 2). – Submontane: Crots, 3.VIII.1998 (Ts). – 800–1850 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*, *Daucus*).

Tryphera lugubris (Meigen, 1824)

Subalpine: Pré de Mme Carle, 8.VIII.1998 (Ts), 10.VIII.1998 (Ts, 4). – Montane: N. of Ailefroide, 1.VIII.1983 (Ts, 2); Vallouise, 7.VII.1975 (He); Brunissard, 4.VIII.1983 (Ts, 3). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts). – 920–1900 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*, *Daucus*).

Carcelia gnava (Meigen, 1824)

Alpine: Glacier Noir, 10.VIII.1998 (Ts). – 2400 m.

A female was collected on flowers of *Alchemilla*. The elevation of 2400 m is unusually high for this species.

Carcelia kowarzi Villeneuve, 1912

Subalpine: Les Têtes, 5.VIII.1998 (ZiLa). – 2044 m.

On white flowers of Apiaceae.

Carcelia laxifrons Villeneuve, 1912

Subalpine: E. of Col du Lautaret, 29.VII.1992 (ZiLa). – Montane: Brunissard, 4.VIII.1983 (Ts, 2), 31.VII.1985 (Ts), 10.VII.1991 (Ts), 5.VII.1992 (Zi); Forêt de Boscodon, 26.V.2002 (Ts). – 1200–1950 m.

On flowers of *Laserpitium* and in yellow pan traps. – Recorded from the Col du Galibier as a parasitoid of *Malacosoma alpicolum* Staudinger (Lasiocampidae) by Ford et al. (2000: 28).

Carcelia lucorum (Meigen, 1824)

Montane: Ailefroide, 21.VII.1996 (ZiLa). – Submontane: S. of l'Argentière, 30.VIII.1976 (He). – 1000–1400 m.

On leaves of shrubs.

Carcelia puberula Mesnil, 1941

Submontane: Mont Dauphin, 24.VII.1996 (ZiLa). – 1030 m.

On flowers of *Laserpitium*.

Senometopia susurrans (Rondani, 1859)

Submontane: S. of l'Argentière, 30.VIII.1976 (He). – 1000 m.

Erycia fasciata Villeneuve, 1924

Montane: Col de l'Echelle, 2.VIII.1983 (Ts); N. of Ailefroide, 6.VIII.1997 (Ts); S. of Col de la Pousterle, 9.VIII.1998 (Ts). – 1600–1750 m.

On flowers of Apiaceae (*Laserpitium*, *Seseli*).

Erycia fatua (Meigen, 1824)

Montane: Col de l'Echelle, 2.VIII.1983 (Ts, 3); Plampinet, 13.VIII.1997 (Ts); Les Alberts, 9.VII.1976 (He), 16.VII.1976 (He, 2), 1.VIII.1985 (Ts, 6); Queyrières, 2.VII.1982 (Ts); Les

Chapins, 14.VIII.1998 (Ts); N. of Ailefroide, 1.VIII.1983 (Ts, 3), 5.VIII.1983 (Ts, 3), 29.VII.1985 (Ts, 2), 10.VIII.1997 (Ts, 2); Ailefroide, 10.VII.1976 (He); S. of Col de la Pousterle, 4.VIII.1998 (Ts), 9.VIII.1998 (Ts); Fournel, 9.VIII.1998 (Ts); Les Mensals, 11.VIII.1998 (Ts, 3); Fressinières, 13.VII.1976 (He). – Submontane: La Bâtie, 23.VII.1996 (ZiLa); La Roche-de-Rame, 30.VI.1982 (Ts, 2); St-Clément, 18.VI.1981 (Ts, 2). – 880–1700 m.

On flowers of Apiaceae (*Laserpitium*, *Seseli*, *Daucus*).

Erycia furibunda (Zetterstedt, 1844)

Alpine: NW. of Col du Lautaret, 15.VII.1997 (ZiLa, 3), 7.VIII.1998 (ZiLa); Crête du Rocher Blanc, 9.VIII.1997 (Ts). – Subalpine: E. of Col du Lautaret, 8.VII.1976 (He), 31.VII.1992 (Ts, 3), 2.VIII.1992 (Ts), 24.VII.1995 (Ts), 25.VII.1995 (Ts), 23.VII.1996 (ZiLa, 2). – Montane: Le Lauzet, 31.VII.1992 (Ts, 4), 2.VIII.1992 (Ts, 3); Col de l'Echelle, 11.VII.1976 (He); Vallouise, 25.VII.1964 (He); Brunissard, 10.VII.1991 (Ts), 11.VII.1991 (Ts), 28.VII.1992, 13.VII.1997 (ZiLa). – 1200–2550 m (usually below 2000 m).

On flowers of *Laserpitium* and *Heracleum*. Several males were collected on a mountain peak while they were sitting on stones.

Alsomyia capillata (Rondani, 1859)

Montane: Brunissard, 13.VII.1997 (ZiLa). – Submontane: S. of l'Argentière, 8.VIII.1997 (Ts); Mont Dauphin, 28.VII.1996 (ZiLa). – 920–1820 m.

On flowers of *Daucus* or swept from low vegetation

Platymya fimbriata (Meigen, 1824)

Alpine: Galibier, 14.VII.1997 (ZiLa); NW. of Col du Lautaret, 15.VII.1997 (ZiLa). – Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts), 31.VII.1992 (Ts). – Montane: Les Alberts, 8.VII.1975 (He); La Vachette, 26.VII.1964 (He); Queyrières, 30.VI.1982 (Ts); N. of Ailefroide, 1.VII.1982 (Ts), 29.VII.1985 (Ts); Ailefroide, 7.VII.1975 (He, 3); S. of Col de la Pousterle, 9.VIII.1998 (Ts); Les Mensals, 11.VIII.1998 (Ts); Brunissard, 4.VIII.1983 (Ts), 31.VII.1985 (Ts), 11.VII.1991 (Ts), 5.VII.1992 (Ts, 2; Zi), 26.VII.1996 (ZiLa, 2); Forêt de Boscodon, 20.V.2002 (Ts); Montagne de St-Genis, 30.V.2002 (Ts, 2); Bois de Faye, 30.V.2002 (Ts, 2). Submontane: E. of l'Argentière, 4.VII.1992 (Ts; Zi); Ventavon, 25.V.2002 (Ts); Upaix, 20.V.2002 (Ts), 25.V.2002, 27.V.2002, 29.V.2002 (Ts); Rourebeau, 29.V.2002 (Ts). – 510–2400 m.

On flowers, swept from low vegetation, or in yellow pan traps; three males on mountain peaks, hilltopping. – Recorded from the Lautaret by RINGDAHL (1957: 122).

Eumea mitis (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts). – Montane: Fournel, 9.VIII.1998 (Ts); Forêt de Boscodon, 26.V.2002 (Ts, 2); Bois de Faye, 30.V.2002 (Ts). – 1100–1950 m.

On flowers of Apiaceae (*Laserpitium*, *Seseli*) and in yellow pan traps. – Recorded from Montgenèvre as a parasitoid of *Zeiraphera diniana* Guenée (Tortricidae) in OILB-list 11: 40.

Myxexoristops blondeli (Robineau-Desvoidy, 1830)

Montane: N. of Ailefroide, 29.VII.1985 (Ts). – 1600–1700 m.

On flowers.

Myxexoristops bonsdorffi (Zetterstedt, 1859)

Montane: Brunissard, 11.VII.1991 (Ts). – 1800–1900 m.

On flowers of *Laserpitium*.

Zenillia libatrix (Panzer, 1798)

Recorded from La Grave by RINGDAHL (1957: 122).

Clemelis majuscula Mesnil, 1954

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts, 2; ZiLa, 5), 31.VII.1992 (Ts, 3). – Montane: Le Lauzet, 31.VII.1992 (Ts), 2.VIII.1992 (Ts, 6); Queyrières, 2.VII.1982 (Ts, 7), 8.VII.1991 (Ts, 2); Vallouise, 11.VII.1975 (He); Brunissard, 1.VII.1982 (Ts, 2), 4.VIII.1983 (Ts, 9), 31.VII.1985 (Ts), 7.VII.1991 (Ts, 12), 10.VII.1991 (Ts, 6), 11.VII.1991 (Ts, 18), 28.VII.1992 (ZiLa, 10). – Submontane: SE. of St-Crépin, 4.VIII.1998 (ZiLa); Mont Dauphin, 5.VII.1992 (Ts, 4; Zi); St-Clément, 18.VI.1981 (Ts). – 880–1950 m.

Usually on flowers of *Laserpitium*. Known only from southeastern France (Hautes-Alpes, Haute-Provence, Vaucluse).

Clemelis pullata (Meigen, 1824)

Alpine: Prorel, 30.VII.1992 (Ts); Crête du Rocher Blanc, 9.VIII.1997 (Ts). – Subalpine: E. of Col du Lautaret, 22.VII.1964 (He), 29.VII.1992 (ZiLa, 3), 30.VII.1992 (Ts), 31.VII.1992 (Ts, 12), 2.VIII.1992 (Ts, 6); Pré de Mme Carle, 8.VIII.1998 (Ts, 6), 10.VIII.1998 (Ts, 4). – Montane: Névache, 2.VIII.1983 (Ts); Col de l'Echelle, 2.VIII.1983 (Ts, 5), 1.VIII.1985 (Ts, 8); Plampinet, 13.VIII.1997 (Ts, 2); Les Alberts, 16.VII.1976 (He, 2), 1.VIII.1985 (Ts, 3); Queyrières, 30.VI.1982 (Ts, 2), 2.VII.1982 (Ts, 11); N. of Ailefroide, 1.VIII.1983 (Ts), 5.VIII.1983 (Ts, 2), 29.VII.1985 (Ts), 2.VIII.1985 (Ts), 21.VII.1996 (ZiLa); Entre-les-Aigues, 13.VIII.1998 (Ts, 5); S. of Col de la Pousterle, 9.VIII.1998 (Ts); Fournel, 14.VIII.1997 (Ts); Les Mensals, 7.VIII.1997 (Ts); Fressinières, 13.VII.1976 (He); Brunissard, 10.VII.1975 (He, 2), 14.VII.1976 (He), 4.VIII.1983 (Ts, 5), 31.VII.1985 (Ts, 9), 7.VII.1991 (Ts), 10.VII.1991 (Ts, 3), 11.VII.1991 (Ts, 6), 5.VII.1992 (Zi), 28.VII.1992 (ZiLa, 6); Forêt de Boscodon, 20.V.2002 (Ts). – Submontane: S. of l'Argentière, 30.VIII.1976 (He, 2), 8.VIII.1997 (Ts); NW. of St-Crépin, 4.VIII.1998 (Ts); SE. of St-Crépin, 4.VIII.1998 (ZiLa, 5); Mont Dauphin, 5.VII.1992 (Zi), 24.VII.1996 (ZiLa), 28.VII.1996 (ZiLa); Upaix, 29.V.2002 (Ts). – 740–2570 m (usually distinctly below 2000 m).

On flowers of Apiaceae (usually *Laserpitium*). Two specimens were collected on mountain peaks while they were sitting on stones. – Recorded from La Grave by RINGDAHL (1957: 122).

Ceratochaetops triseta (Villeneuve, 1922)

Montane: Vallouise, 25.VII.1964 (He). – 1200 m.

Pales processioneae (Ratzeburg, 1840)

Submontane: S. of l'Argentière, 30.VIII.1976 (He). – 1000 m.

Pales pavida (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts; ZiLa). – Montane: Brunissard, 11.VII.1991 (Ts, 2), 28.VII.1992 (ZiLa); Forêt de Boscodon, 26.V.2002 (Ts). – Submontane: E. of l'Argentière, 4.VII.1992 (Zi); St-Clément, 18.VI.1981 (Ts). – 880–1950 m.

On flowers of *Laserpitium* and in yellow pan traps.

Pales pumicata (Meigen, 1824)

Alpine: Prorel, 30.VII.1992 (Ts), 6.VIII.1998 (ZiLa, 2); Crête du Rocher Blanc, 26.VII.1995 (Ts). – Subalpine: E. of Col du Lautaret, 30.VII.1992 (Ts); Les Têtes, 5.VIII.1998 (ZiLa). – Montane: Sarserra, 25.VII.1996 (ZiLa, 2); Les Alberts, 1.VIII.1985 (Ts); N. of Ailefroide, 2.VIII.1985 (Ts, 2), 5.VIII.1997 (Ts, 2), 6.VIII.1997 (Ts, 2), 10.VIII.1997 (Ts); Ailefroide, 7.VII.1975 (He); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 5); Les Mensals, 11.VIII.1998 (Ts); Le Laus, 14.VII.1976 (He, 2); Brunissard, 10.VII.1975 (He), 14.VII.1976 (He, 4), 4.VIII.1983 (Ts, 15), 31.VII.1985 (Ts, 33), 7.VII.1991 (Ts, 3), 10.VII.1991 (Ts, 4), 11.VII.1991 (Ts, 4),

26.VII.1996 (ZiLa, 4); Chabre, 25.V.2002 (Ts). – Submontane: Mont Dauphin, 24.VII.1996 (ZiLa); Ventavon, 25.V.2002 (Ts, 2). – 640–2570 m (usually below 2000 m).

On flowers of Apiaceae (*Laserpitium*, *Angelica*, *Seseli*) and in yellow pan traps. Two females were collected on mountain peaks while they were sitting on stones.

Bothria subalpina Villeneuve, 1910

Montane: Forêt de Boscodon, 16.V.1999 (ZiLa), 20.V.2002 (Ts). – 1170–1200 m.

On leaves of shrubs and in yellow pan traps.

Ceromasia rubrifrons (Macquart, 1834)

Subalpine: Pré de Mme Carle, 8.VIII.1997 (Ts, 2), 8.VIII.1998 (Ts, 5), 10.VIII.1998 (Ts, 4). – Montane: Combe de Malaval, 8.VII.1976 (He); Plampinet, 13.VIII.1997 (Ts, 3); Sarserra, 25.VII.1996 (ZiLa, 3); Queyrières, 30.VI.1982 (Ts, 2), 2.VII.1982 (Ts, 12), 8.VII.1991 (Ts, 2); N. of Ailefroide, 30.VI.1982 (Ts), 5.VIII.1983 (Ts), 21.VII.1996 (ZiLa, 2), 6.VIII.1997 (Ts, 4), 10.VIII.1997 (Ts); Ailefroide, 21.VII.1996 (ZiLa); Entre-les-Aigues, 6.VIII.1997 (Ts, 5), 13.VIII.1998 (Ts, 5); S. of Col de la Pousterle, 4.VIII.1998 (Ts), 9.VIII.1998 (Ts, 4); Vallouise, 5.VII.1975 (He); Fournel, 14.VIII.1997 (Ts); Les Mensals, 11.VIII.1998 (Ts); Fressinières, 13.VII.1976 (He); Combe du Queyras, 26.VII.1996 (ZiLa); Vallée de Rabious, 3.VIII.1998 (ZiLa). – Submontane: E. of l'Argentière, 25.VII.1964 (He), 4.VII.1992 (Ts); S. of l'Argentière, 30.VIII.1976 (He), 8.VIII.1997 (Ts), 10.VIII.1997 (Ts, 4); SE. of St-Crépin, 4.VIII.1998 (ZiLa, 7). – 950–1900 m.

On flowers (Apiaceae, *Euphorbia*, *Thymus*, *Sedum*) or swept from low vegetation.

Allophorocera ferruginea (Meigen, 1824)

Montane: N. of Ailefroide, 2.VIII.1985 (Ts); Ailefroide, 21.VII.1996 (ZiLa); Les Prés, 21.VII.1996 (ZiLa); Brunissard, 14.VII.1976 (He), 4.VIII.1983 (Ts, 2), 31.VII.1985 (Ts, 3), 26.VII.1996 (ZiLa, 3); Combe du Queyras, 23.VII.1964 (He); Entre-les-Aigues, 13.VIII.1998 (Ts); Les Mensals, 11.VIII.1998 (Ts). – 1100–1850 m.

On flowers of Apiaceae (*Laserpitium*, *Angelica*, *Seseli*) or *Sedum*.

Allophorocera pachystyla (Macquart, 1850)

Alpine: La Gardiole, 2.VIII.1992 (Ts, 46), 27.VII.1995 (Ts, 59), 3.VIII.1997 (Ts, 63), 7.VIII.1998 (Ts, 74); Col de Cibières, 3.VIII.1997 (Ts, 4); Prorel, 27.VII.1992 (ZiLa), 6.VIII.1998 (ZiLa, 12); Crête du Rocher Blanc, 26.VII.1995 (Ts, 2), 9.VIII.1997 (Ts, 6), 6.VIII.1998 (Ts, 30); Glacier Noir, 10.VIII.1998 (Ts, 2). – Subalpine: Pré de Mme Carle, 8.VIII.1998 (Ts). – Montane: N. of Ailefroide, 30.VI.1982 (Ts), 1.VIII.1983 (Ts), 5.VIII.1983 (Ts); Brunissard, 4.VIII.1997 (Ts). – 1700–2750 m.

Alpine species. Males and females were observed in numbers while they were sitting on or flying between rock debris about 50–100 m below mountain peaks. Occasionally they were visiting flowers of *Alchemilla*, *Euphorbia*, or Apiaceae. Only a few specimens have been found directly on the hilltops.

Ocytata pallipes (Fallén, 1820)

Subalpine: E. of Col du Lautaret, 9.VII.1975 (He), 31.VII.1983 (Ts); Pré de Mme Carle, 8.VIII.1998 (Ts). – Montane: La Grave, 8.VII.1976 (He); N. of Ailefroide, 1.VIII.1983 (Ts); Brunissard, 4.VIII.1983 (Ts), 26.VII.1996 (ZiLa). – 1500–2000 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*).

Eurysthaea scutellaris (Robineau-Desvoidy, 1848)

Montane: Forêt de Boscodon, 20.V.2002 (Ts), 26.V.2002 (Ts). – 1200 m.

In yellow pan traps.

Erynnia ocypterata (Fallén, 1810)

Montane: Les Alberts, 11.VII.1976 (He), 16.VII.1976 (He). – 1350 m.

Elodia morio (Fallén, 1820)

Montane: N. of Ailefroide, 1.VIII.1983 (Ts), 21.VII.1996 (ZiLa); Ailefroide, 21.VII.1996 (ZiLa); Brunissard, 31.VII.1985 (Ts, 3). – 1400–1850 m.

On flowers of Apiaceae. – Recorded from the Montgenèvre as a parasitoid of *Zeiraphera diniana* Guenée (Tortricidae) in OILB-list 11: 40.

Sturmia bella (Meigen, 1824)

Montane: Forêt de Boscodon, 1.VII.1997 (ZiLa). – Submontane: SE. of St-Crépin, 4.VIII.1998 (ZiLa). – 950–1650 m.

On flowers (*Daucus*) or between low vegetation.

Blepharipa pratensis (Meigen, 1824)

Montane: Fournel, 26.V.2002 (Ts, 6). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts); S. of l'Argentière, 17.VI.1981 (Ts); La Roche-de-Rame, 30.VI.1982 (Ts); Mont Dauphin, 5.VII.1992 (Ts); St-Clément, 18.VI.1981 (Ts, 20). – 880–1400 m.

On flowers of *Laserpitium* and in yellow pan traps.

Blepharipa schineri (Mesnil, 1939)

Montane: Bois de Faye, 29.V.2002 (Ts); Chabre, 25.V.2002 (Ts). – 1100–1300 m.

On tree leaves and in yellow pan traps.

Masicera pavoniae (Robineau-Desvoidy, 1830)

Montane: Montgenèvre, 12.VII.1990 (Bartàk); Abriès, 14.VII.1976 (He). – Submontane: St-Clément, 18.VI.1981 (Ts, 5); Barret, 25.V.2002 (Ts). – 650–1800 m.

On *Laserpitium* flowers – The record of *Masicera pratensis* from La Grave by Ringdahl (1957: 122) may also refer to a species of *Masicera* other than *M. pavoniae*.

Masicera silvatica (Fallén, 1810)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts; ZiLa, 2), 24.VII.1995 (Ts), 25.VII.1995 (Ts, 3), 26.VII.1995 (Ts); Pré de Mme Carle, 10.VIII.1998 (Ts). – Montane: Le Lauzet, 31.VII.1992 (Ts, 5), 2.VIII.1992 (Ts, 9), 25.VII.1995 (Ts, 2), 23.VII.1996 (ZiLa, 2); Granon, 3.VIII.1983 (Ts); Col de l'Echelle, 2.VIII.1983 (Ts, 3), 1.VIII.1985 (Ts, 5); Plampinet, 13.VIII.1997 (Ts, 6); Sarserra, 25.VII.1996 (ZiLa, 4); Les Alberts, 9.VII.1976 (He); Queyrières, 2.VII.1982 (Ts, 2); N. of Ailefroide, 6.VIII.1997 (Ts); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 11); Vallouise, 11.VII.1975 (He); Fournel, 14.VIII.1997 (Ts); Les Mensals, 11.VIII.1998 (Ts, 10); Fressinières, 13.VII.1976 (He). – Submontane: E. of l'Argentière, 4.VII.1992 (Zi); S. of l'Argentière, 8.VIII.1997 (Ts); La Roche-de-Rame, 30.VI.1982 (Ts); SE. of St-Crépin, 4.VIII.1998 (ZiLa); Mont Dauphin, 5.VII.1992 (Ts, 2; Zi, 4), 24.VII.1996 (ZiLa), 28.VII.1996 (ZiLa), 13.VII.1997 (ZiLa); Prunières, 1.VII.1997 (ZiLa, 5). – 850–1950 m.

On flowers of Apiaceae (usually *Laserpitium*).

Masicera sphingivora (Robineau-Desvoidy, 1830)

Subalpine: E. of Col du Lautaret, 30.VII.1992 (Ts); Pré de Mme Carle, 8.VIII.1998 (Ts). – Montane: Les Alberts, 9.VII.1976 (He); Briançon, 26.VII.1964 (He, 2); N. of Ailefroide, 5.VIII.1983 (Ts, 2), 2.VIII.1985 (Ts); S. of Col de la Pousterle, 9.VIII.1998 (Ts); Brunissard, 4.VIII.1983 (Ts, 3), 7.VII.1991 (Ts, 4), 11.VII.1991 (Ts, 13), 5.VII.1992 (Zi), 28.VII.1992 (ZiLa, 4), 26.VII.1996 (ZiLa, 2), 13.VII.1997 (ZiLa). – Submontane: La Roche-de-Rame, 30.VI.1982 (Ts, 2); Mont Dauphin, 5.VII.1992 (Ts, 3; Zi), 13.VII.1997 (ZiLa). – 920–1950 m.

On flowers of Apiaceae (usually *Laserpitium*). – The record of *Masicera silvatica* by CLEU (1925: 126) from (Argentière)-la-Bessée most probably refers to *M. sphingivora*, because *Celerio vespertilio* Esper (Sphingidae) is given as the host.

Prosopea nigricans (Egger, 1861)

Montane: Col de l'Echelle, 2.VIII.1983 (Ts); Plampinet, 13.VIII.1997 (Ts); Sarserra, 25.VII.1996 (ZiLa); Les Alberts, 8.VII.1975 (He, 4), 9.VII.1976 (He, 3), 16.VII.1976 (He), 1.VIII.1985 (Ts, 3); Queyrières, 1.VII.1982 (Ts), 2.VII.1982 (Ts, 4), 8.VII.1991 (Ts); Fressinières, 13.VII.1976 (He, 4); Brunissard, 11.VII.1991 (Ts); Forêt de Boscodon, 20.V.2002 (Ts), 26.V.2002 (Ts, 6). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts; Zi); S. of l'Argentière, 30.VIII.1976 (He, 2), 17.VI.1981 (Ts); La Roche-de-Rame, 30.VI.1982 (Ts, 2); SE. of St-Crépin, 4.VIII.1998 (ZiLa); Mont Dauphin, 5.VII.1992 (Ts, 9; Zi, 6); St-Clément, 18.VI.1981 (Ts, 5); Ventavon, 25.V.2002 (Ts, 3). – 640–1850 m.

On flowers of Apiaceae and in yellow pan traps.

Gaedia connexa (Meigen, 1824)

Subalpine: Pré de Mme Carle, 8.VIII.1998 (Ts), 10.VIII.1998 (Ts, 3). – Montane: Vallouise, 5.VII.1975 (He). – Submontane: Mont Dauphin, 5.VII.1992 (Ts, 2; Zi), 24.VII.1996; St-Clément, 18.VI.1981 (Ts, 2); Espinasses, 28.V.2002 (Ts). – 700–1900 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*).

Gaedia distincta Egger, 1861

Montane: Queyrières, 30.VI.1982 (Ts); N. of Ailefroide, 1.VIII.1983 (Ts). – 1200–1700 m.

On flowers of *Laserpitium*.

Gaedia hispanica Mesnil, 1953

Submontane: NW. of St-Crépin, 30.VI.1982 (Ts). – 950 m.

A rare species, which was previously known from Spain, southern France (Var), and northern Italy. One male was collected while it was sitting on the branches of *Juniperus*.

Frontina laeta (Meigen, 1824)

Submontane: E. of l'Argentière, 10.VII.1975 (He). – 1100 m.

Thelymorpha marmorata (Fabricius, 1805)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts; ZiLa), 30.VII.1992 (Ts). – Montane: La Grave, 22.VII.1964 (He); Le Lauzet, 2.VIII.1992 (Ts, 4); Les Alberts, 16.VII.1976 (He); N. of Ailefroide, 5.VIII.1983 (Ts); Entre-les-Aigues, 13.VIII.1998 (Ts, 4); Fournel, 9.VIII.1998 (Ts, 2); Brunissard, 31.VII.1985 (Ts), 11.VII.1991 (Ts, 2), 5.VII.1992 (Ts; Zi); Forêt de Boscodon, 1.VII.1997 (ZiLa, 2). – 1170–1950 m.

On flowers of *Laserpitium*.

Pachystylum bremii Macquart, 1848

Subalpine: E. of Col du Lautaret, 9.VII.1975 (He, 2), 15.VII.1976 (He), 29.VII.1992 (Ts, 4), 31.VII.1992 (Ts), 26.VII.1995 (Ts); Pré de Mme Carle, 8.VIII.1997 (Ts), 8.VIII.1998 (Ts). – Montane: La Grave, 15.VII.1997 (ZiLa); Le Lauzet, 31.VII.1992 (Ts), 2.VIII.1992 (Ts, 12); Col de l'Echelle, 11.VII.1976 (He), 2.VIII.1983 (Ts); Chalets du Verney, 25.VII.1996 (ZiLa, 4); Montgenèvre, 12.VII.1990 (BARTÁK); N. of Ailefroide, 8.VII.1991 (Ts), 21.VII.1996 (ZiLa, 2), 5.VIII.1997 (Ts), 6.VIII.1997 (Ts); Ailefroide, 10.VII.1976 (He), 21.VII.1996 (ZiLa); Les Mensals, 11.VIII.1998 (Ts, 2); Brunissard, 13.VII.1997 (ZiLa). – Submontane: La Bâtie, 22.VII.1996 (ZiLa). – 1050–1950 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*, *Angelica*, *Heracleum*) and *Sedum*.

Masistylum arcuatum (Mik, 1863)

Alpine: Prorel, 27.VII.1992 (ZiLa). – 2570 m.

On stones on a mountain peak.

Gonia capitata (Degeer, 1776)

Alpine: Crête de Chaillol, 25.VII.1995 (Ts, 2); NW. of Col du Lautaret, 7.VIII.1998 (ZiLa, 2); Le Grand Aréa, 1.VIII.1992 (Ts, 2); Le Petit Aréa, 1.VIII.1992 (Ts); La Gardiole, 31.VII.1992 (Ts), 3.VIII.1997 (Ts, 2), 7.VIII.1998 (Ts, 34); Croix de la Cime, 13.VIII.1997 (Ts); Prorel, 12.VII.1991 (Ts), 27.VII.1992 (ZiLa, 13), 30.VII.1992 (Ts, 9), 22.VII.1996 (ZiLa), 6.VIII.1998 (Ts, 8); Crête du Rocher Blanc, 26.VII.1995 (Ts, 3), 9.VIII.1997 (Ts, 10), 6.VIII.1998 (Ts, 2; ZiLa, 10); Crête des Prés des Bancs, 12.VIII.1997 (Ts, 13); Crête de Jambe Route, 4.VIII.1997 (Ts, 3). – Subalpine: E. of Col du Lautaret, 31.VII.1983 (Ts, 2); Pré de Mme Carle, 8.VIII.1997 (Ts, 8), 10.VIII.1997 (Ts, 2); Tête d'Oreac, 12.VIII.1997 (Ts); Les Têtes, 14.VIII.1997 (Ts, 32), 15.VIII.1997 (Ts, 30), 5.VIII.1998 (Ts, 27; ZiLa, 20). – Montane: La Grave, 22.VII.1964 (He); Le Lauzet, 2.VIII.1992 (Ts, 2); Granon, 3.VIII.1983 (Ts, 5); Les Alberts, 11.VII.1976 (He); Les Chapins, 14.VIII.1998 (Ts, 5); N. of Ailefroide, 1.VIII.1983 (Ts, 10), 21.VII.1996 (ZiLa, 2), 10.VIII.1997 (Ts, 3); Entre-les-Aigues, 6.VIII.1997 (Ts), 13.VIII.1998 (Ts); Col de la Pousterle, 5.VIII.1998 (ZiLa, 2), 9.VIII.1998 (Ts, 8); S. of Col de la Pousterle, 14.VIII.1998 (Ts, 2); Les Mensals, 11.VIII.1998 (Ts, 13); Brunissard, 14.VII.1976 (He), 4.VIII.1983 (Ts, 8), 28.VII.1992 (ZiLa, 8), 26.VII.1996 (ZiLa), 13.VII.1997 (ZiLa, 5), 4.VIII.1997 (Ts, 27). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts). – 920–2870 m.

On flowers (*Achillea*, *Thymus*, *Mentha*, *Gypsophila*, *Scabiosa*, Apiaceae). Many specimens were collected on mountain peaks on stones or on low vegetation. – Recorded from La Grave by RINGDAHL (1957: 122).

Gonia ornata Meigen, 1826

Alpine: Prorel, 12.VII.1991 (Ts, 3), 27.VII.1992 (ZiLa). – 2570 m.

Four specimens were collected while they were sitting on stones on a mountain peak, the elevation being unusually high for this species.

Onychogonia cervini (Bigot, 1881)

Alpine: Le Grand Aréa, 1.VIII.1992 (Ts, 4); La Gardiole, 31.VII.1992 (Ts, 5), 27.VII.1995 (Ts, 2), 7.VIII.1998 (Ts); Prorel, 30.VII.1992 (Ts, 2), 22.VII.1996 (ZiLa, 2). – 2400–2870 m.

On mountain peaks, sitting on stones, between low vegetation, or visiting flowers of *Thymus*.

Onychogonia flaviceps (Zetterstedt, 1838)

Alpine: Prorel, 27.VII.1992 (ZiLa, 2); Crête des Prés des Bancs, 12.VIII.1997 (Ts). – Subalpine: Les Têtes, 5.VIII.1998 (Ts, 4; ZiLa, 2). – 2000–2570 m.

On flowers of *Achillea* or Apiaceae. Several specimens were collected on mountain crests or peaks, on stones or on low shrubs of *Larix*.

Onychogonia suggesta (Pandellé, 1896)

Alpine: Crête de Chaillol, 25.VII.1995 (Ts); Le Grand Aréa, 1.VIII.1992 (Ts, 18); La Gardiole, 31.VII.1992 (Ts, 4), 2.VIII.1992 (Ts, 7), 27.VII.1995 (Ts, 6), 3.VIII.1997 (Ts, 4), 7.VIII.1998 (Ts, 16); Prorel, 27.VII.1992 (ZiLa), 30.VII.1992 (Ts), 6.VIII.1998 (Ts; ZiLa); Crête du Rocher Blanc, 6.VIII.1998 (Ts, 7). – 2400–2870 m.

Observed on or near mountain peaks, flying around quickly, sitting on stones, or visiting flowers (*Thymus*, *Senecio*, *Alchemilla*).

Pseudogonia parisiaca (Robineau-Desvoidy, 1851)

Submontane: Barret, 25.V.2002 (Ts). – 650 m.

On flowers of *Laserpitium*.

Pseudogonia rufifrons (Wiedemann, 1830)

Submontane: Mont Dauphin, 5.VII.1992 (Zi). – 920 m.

On flowers of *Laserpitium*.

Spallanzania multisetosa (Rondani, 1859)

Subalpine: Les Têtes, 14.VIII.1997 (Ts), 15.VIII.1997 (Ts, 2), 5.VIII.1998 (Ts, 14; ZiLa, 3). – Montane: Queyrières, 2.VII.1982 (Ts); Les Chapins, 14.VIII.1998 (Ts); Ailefroide, 10.VII.1976 (He); Col de la Pousterle, 9.VIII.1998 (Ts); Vallouise, 25.VII.1964 (He, 2); Fressinières, 13.VII.1976 (He, 2); Forêt de Boscodon, 1.VII.1997 (ZiLa). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts); St-Clément, 18.VI.1981 (Ts). – 880–2050 m.

On flowers (*Achillea*, *Laserpitium*, *Eryngium*, *Mentha*).

4.3 Subfamily Tachininae

Tachina fera (Linnaeus, 1761)

Alpine: Prorel, 30.VII.1992 (Ts). – Subalpine: E. of Col du Lautaret, 22.VII.1964 (He), 29.VII.1992 (Ts, 36), 30.VII.1992 (Ts, 37), 31.VII.1992 (Ts, 42), 2.VIII.1992 (Ts, 31), 24.VII.1995 (Ts, 9), 25.VII.1995 (Ts, 13), 26.VII.1995 (Ts, 9), 23.VII.1996 (ZiLa), 2.VIII.1997 (Ts, 6); Pré de Mme Carle, 8.VIII.1997 (Ts, 4), 8.VIII.1998 (Ts), 10.VIII.1998 (Ts); Les Têtes, 14.VIII.1997 (Ts), 15.VIII.1997 (Ts, 2), 5.VIII.1998 (Ts, 13). – Montane: La Grave, 22.VII.1964 (He); Le Lauzet, 31.VII.1992 (Ts, 25), 2.VIII.1992 (Ts, 40), 25.VII.1995 (Ts); Col de l'Echelle, 11.VII.1976 (He); Plampinet, 13.VIII.1997 (Ts, 2); Sarserra, 25.VII.1996 (ZiLa, 3); Montgenèvre, 8.VII.1975 (He); Queyrières, 8.VII.1991 (Ts); Les Chapins, 14.VIII.1998 (Ts); N. of Ailefroide, 1.VII.1982 (Ts), 16.VI.1983 (Ts, 2), 17.VI.1983 (Ts), 2.VIII.1985 (Ts), 5.VIII.1997 (Ts, 5), 6.VIII.1997 (Ts, 6), 10.VIII.1997 (Ts); Col de la Pousterle, 5.VIII.1998 (Ts), 9.VIII.1998 (Ts, 48); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 10); Puy-St-Vincent, 12.VIII.1997 (Ts, 7); Fournel, 14.VIII.1997 (Ts, 2); Les Mensals, 7.VIII.1997 (Ts, 2), 11.VIII.1998 (Ts, 95); Brunissard, 7.VII.1991 (Ts, 2), 10.VII.1991 (Ts), 11.VII.1991 (Ts, 2); Vallée de Rabious, 3.VIII.1998 (ZiLa, 5); Forêt de Boscodon, 1.VII.1997 (ZiLa, 3); Montagne de St-Genis, 30.V.2002 (Ts, 2); Chabre, 19.V.2002 (Ts), 21.V.2002 (Ts, 8), 24.V.2002 (Ts, 2). – Submontane: S. of l'Argentière, 17.VI.1981 (Ts), 8.VIII.1997 (Ts); NW. of St-Crépin, 4.VIII.1998 (Ts; ZiLa); Mont Dauphin, 5.VII.1992 (Ts, 2; Zi, 3), 24.VII.1996 (ZiLa), 28.VII.1996 (ZiLa), 13.VII.1997 (ZiLa, 2); Prunières, 1.VII.1997 (ZiLa). – 900–2570 m (usually below 2000 m).

Common species on flowers (Apiaceae, *Achillea*, *Mentha*), several males also on hilltops.

Tachina grossa (Linnaeus, 1758)

Alpine: Glacier Blanc, 12.VIII.1998 (Ts). – Subalpine: E. of Col du Lautaret, 31.VII.1992 (Ts), 2.VIII.1992 (Ts); Pré de Mme Carle, 10.VIII.1998 (Ts). – Montane: Le Lauzet, 31.VII.1992 (Ts), 25.VII.1995 (Ts); Granon, 3.VIII.1983 (Ts, 8); Les Alberts, 1.VIII.1985 (Ts); Les Mensals, 7.VIII.1997 (Ts, 3), 11.VIII.1998 (Ts, 12). – Submontane: S. of l'Argentière, 14.VIII.1998 (Ts). – 950–2350 m.

On flowers (*Mentha*, *Laserpitium*, *Peucedanum*, *Angelica*).

Tachina magnicornis (Zetterstedt, 1844)

Alpine: Prorel, 27.VII.1992 (ZiLa); Crête des Prés des Bancs, 12.VIII.1997 (Ts). – Subalpine: E. of Col du Lautaret, 24.VII.1964 (He), 29.VII.1992 (Ts), 30.VII.1992 (Ts); Pré de Mme Carle, 8.VIII.1997 (Ts), 8.VIII.1998 (Ts, 20), 10.VIII.1998 (Ts, 20); Les Têtes, 14.VIII.1997 (Ts, 4), 15.VIII.1997 (Ts, 7), 2.VIII.1998 (ZiLa, 2), 5.VIII.1998 (Ts, 78; ZiLa, 30).

– Montane: La Grave, 22.VII.1964 (He, 2); Le Lauzet, 2.VIII.1992 (Ts, 2); Le Monêtier-les-Bains, 22.VII.1964 (He); Granon, 3.VIII.1983 (Ts, 7); Col de l'Echelle, 2.VIII.1983 (Ts); Plampinet, 13.VIII.1997 (Ts, 16); Briançon, 5.VII.1975 (He); Queyrières, 1.VII.1982 (Ts), 2.VII.1982 (Ts, 7); Les Chapins, 14.VIII.1998 (Ts); N. of Ailefroide, 30.VI.1982 (Ts), 1.VIII.1983 (Ts, 3), 29.VII.1985 (Ts, 2), 5.VIII.1997 (Ts, 6), 6.VIII.1997 (Ts, 11), 10.VIII.1997 (Ts); Entre-les-Aigues, 6.VIII.1997 (Ts), 13.VIII.1998 (Ts); Col de la Pousterle, 2.VIII.1998 (ZiLa), 5.VIII.1998 (Ts, 31; ZiLa), 9.VIII.1998 (Ts, 67); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 41); Les Mensals, 11.VIII.1998 (Ts, 21); Brunissard, 1.VII.1982 (Ts), 4.VIII.1983 (Ts, 5), 5.VII.1992 (Ts); Montagne de St-Genis, 30.V.2002 (Ts); Bois de Faye, 30.V.2002 (Ts). – Submontane: E. of l'Argentière, 4.VII.1992 (Zi, 2); S. of l'Argentière, 14.VIII.1998 (Ts); NW. of St-Crépin, 4.VIII.1998 (Ts, 3; ZiLa, 3); SE. of St-Crépin, 4.VIII.1998 (ZiLa, 3); W. of Mont Dauphin, 14.VIII.1998 (Ts); Mont Dauphin, 28.VII.1996 (ZiLa, 3); St-Clément, 18.VI.1981 (Ts, 2); Prunières, 1.VII.1997 (ZiLa); Crots, 3.VIII.1998 (Ts); Vallée de Boscodon, 16.V.1999 (ZiLa). – 800–2570 m (usually below 2000 m).

Common species on flowers (Apiaceae, *Achillea*, *Mentha*, *Euphorbia*, *Scabiosa*).

Tachina praeceps Meigen, 1824

Montane: Sarserra, 25.VII.1996 (ZiLa); Brunissard, 31.VII.1985 (Ts), 7.VII.1991 (Ts), 11.VII.1991 (Ts, 3), 28.VII.1992 (ZiLa, 4). – 1400–1900 m.

On flowers of *Laserpitium*.

Tachina sp.

Alpine: Crête de Chaillol, 25.VII.1995 (Ts); La Gardiole, 7.VIII.1998 (Ts); Prorel, 22.VII.1996 (ZiLa); Glacier Blanc, 12.VIII.1998 (Ts); Crête des Prés des Bancs, 12.VIII.1997 (Ts). – Subalpine: E. of Col du Lautaret, 29.VII.1992 (ZiLa, 6), 24.VII.1995 (Ts, 4), 25.VII.1995 (Ts, 26), 26.VII.1995 (Ts, 17), 14.VII.1997 (ZiLa, 3), 2.VIII.1997 (Ts); Pré de Mme Carle, 8.VIII.1997 (Ts, 9), 10.VIII.1997 (Ts, 7), 8.VIII.1998 (Ts); Les Têtes, 14.VIII.1997 (Ts), 15.VIII.1997 (Ts, 7), 5.VIII.1998 (Ts, 41; ZiLa, 15). – Montane: Le Lauzet, 25.VII.1995 (Ts), 23.VII.1996 (ZiLa, 2); N. of Ailefroide, 21.VII.1996 (ZiLa, 4), 5.VIII.1997 (Ts, 2), 6.VIII.1997 (Ts, 4), 10.VIII.1997 (Ts, 4); Col de la Pousterle, 5.VIII.1998 (Ts, 7; ZiLa), 9.VIII.1998 (Ts, 39); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 21); Brunissard, 5.VII.1992 (Zi), 28.VII.1992 (ZiLa, 9), 4.VIII.1997 (Ts). – Submontane: La Roche-de-Rame, 30.VI.1982 (Ts). – 950–2750 m.

On flowers (*Laserpitium*, *Peucedanum*, *Seseli*, *Achillea*, *Mentha*, *Scabiosa*); three specimens were collected on stones while they were hilltopping on mountain crests. – This is a large species which is closely related to *Tachina magnicornis*. The male genitalia are not different from *T. magnicornis*, however the dark stripe on the abdomen and the length of the male claws are as in *T. fera*, and the width of the male frons is intermediate between *T. magnicornis* and *T. fera*. As the specimens were collected together with *T. magnicornis* and *T. fera*, it may be concluded that they do not simply belong to a geographical race or a form from high elevations, but represent a different species. Further investigations are necessary to clarify if this species is totally undescribed, or if there is already a name available for it.

Nowickia atripalpis (Robineau-Desvoidy, 1863) (males)

Alpine: Crête des Prés des Bancs, 12.VIII.1997 (Ts, 8); Col d'Izoard, 26.VII.1996 (ZiLa). – Subalpine: E. of Col du Lautaret, 24.VII.1964 (He, 2), 31.VII.1983 (Ts), 29.VII.1992 (ZiLa, 2), 31.VII.1992 (Ts); Les Têtes, 14.VIII.1997 (Ts), 15.VIII.1997 (Ts, 4), 5.VIII.1998 (Ts, 12; ZiLa, 8). – Montane: Granon, 3.VIII.1983 (Ts); Montgenèvre, 12.VII.1990 (Bartàk); Col de la Pousterle, 9.VIII.1998 (Ts, 4). – 1700–2500 m.

Usually on flowers (*Achillea*, *Thymus*, *Laserpitium*, *Mentha*).

Nowickia ferox (Panzer, 1809)

Alpine: Crête des Prés des Bancs, 12.VIII.1997 (Ts). – Subalpine: Les Têtes, 15.VIII.1997 (Ts), 5.VIII.1998 (Ts; ZiLa);. – Montane: Queyrières, 30.VI.1982 (Ts); Col de la Pousterle, 2.VIII.1998 (ZiLa), 5.VIII.1998 (Ts, 5; ZiLa), 9.VIII.1998 (Ts, 8); Vallouise, 30.VI.1982 (Ts, 2); Les Mensals, 11.VIII.1998 (Ts, 6). – Submontane: La Roche-de-Rame, 30.VI.1982 (Ts). – 950–2500 m.

On flowers (*Laserpitium*, *Achillea*, *Thymus*, *Mentha*, *Scabiosa*). – The record of *Fabriciella ferox* from La Grave by RINGDAHL (1957: 122) may also refer to another species of *Nowickia*.

Nowickia reducta Mesnil, 1970

Alpine: Crête de Chaillol, 25.VII.1995 (Ts, 4); Le Grand Aréa, 1.VIII.1992 (Ts, 2); Le Petit Aréa, 1.VIII.1992 (Ts, 11); La Gardiole, 31.VII.1992 (Ts, 4), 27.VII.1995 (Ts, 4), 3.VIII.1997 (Ts, 2), 7.VIII.1998 (Ts, 4); Col de Cibières, 3.VIII.1997 (Ts); Prorel, 12.VII.1991 (Ts, 5), 27.VII.1992 (ZiLa, 6), 30.VII.1992 (Ts, 4), 22.VII.1996 (ZiLa, 2), 6.VIII.1998 (Ts, 4; ZiLa, 3); Crête du Rocher Blanc, 26.VII.1995 (Ts, 12), 9.VIII.1997 (Ts, 13), 6.VIII.1998 (Ts, 17); Glacier Noir, 10.VIII.1998 (Ts, 2); Glacier Blanc, 12.VIII.1998 (Ts); Crête des Prés des Bancs, 12.VIII.1997 (Ts, 26); Crête de Jambe Route, 4.VIII.1997 (Ts). – Subalpine: Tête d'Oreac, 12.VIII.1997 (Ts, 2); Les Têtes, 14.VIII.1997 (Ts, 26), 15.VIII.1997 (Ts, 32), 5.VIII.1998 (Ts, 19; ZiLa, 17). – Montane: Col de la Pousterle, 5.VIII.1998 (Ts; ZiLa), 9.VIII.1998 (Ts, 7). – 1750–2870 m.

Included herein are all males, and few females that were collected in copula with males. The majority of the specimens were collected on mountain peaks or ridges while they were sitting on stones, on the ground, or on low plants. Occasionally the flies were also found on flowers of *Thymus*, *Achillea*, or *Mentha*.

Nowickia sp. (females of *reducta* Mesnil or *atripalpis* Robineau-Desvoidy)

Subalpine: Les Têtes, 14.VIII.1997 (Ts, 2), 15.VIII.1997 (Ts, 5), 5.VIII.1998 (Ts, 2). – Montane: Col de la Pousterle, 9.VIII.1998 (Ts); Les Mensals, 11.VIII.1998 (Ts). – 1400–2050 m.

On flowers (*Achillea*, *Mentha*). – Females of both species are currently not separable.

Nowickia marklini (Zetterstedt, 1838)

Alpine: Prorel, 27.VII.1992 (ZiLa). – Subalpine: Les Têtes, 5.VIII.1998 (Ts). – Montane: N. of Ailefroide, 29.VII.1985 (Ts). – 1550–2570 m.

On flowers of *Laserpitium* and *Achillea*.; one specimen was collected while it was sitting on stones on a mountain peak.

Nowickia rondanii (Giglio-Tos, 1890)

Subalpine: E. of Col du Lautaret, 31.VII.1992 (Ts); Pré de Mme Carle, 8.VIII.1997 (Ts, 3), 10.VIII.1997 (Ts), 8.VIII.1998 (Ts, 6), 10.VIII.1998 (Ts, 4). – Montane: Granon, 3.VIII.1983 (Ts); Les Alberts, 16.VII.1976 (He, 3); Montgenèvre, 8.VII.1975 (He); N. of Ailefroide, 29.VII.1985 (Ts), 2.VIII.1985 (Ts). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts, 3); NW. of St-Crépin, 4.VIII.1998 (Ts). – 920–2000 m.

On flowers (*Laserpitium*, *Peucedanum*, *Thymus*, *Mentha*, *Cerastium*).

Nowickia strobelii (Rondani, 1865)

Subalpine: E. of Col du Lautaret, 24.VII.1964 (He). – 2000 m.

Peleteria abdominalis Robineau-Desvoidy, 1830

Submontane: Mont Dauphin, 5.VII.1992 (Zi). – 920 m.

On flowers of *Laserpitium*.

Peleteria popelii (Portshinsky, 1882)

Subalpine: Pré de Mme Carle, 8.VIII.1997 (Ts), 10.VIII.1997 (Ts), 8.VIII.1998 (Ts, 6), 10.VIII.1998 (Ts, 3). – Montane: Plampinet, 13.VIII.1997 (Ts). – 1450–1950 m.

Usually on flowers of *Thymus*, rarely feeding on other flowers (*Peucedanum*, *Seseli*).

Peleteria prompta (Meigen, 1824)

Alpine: Peyrou d'Amont, 15.VII.1997 (ZiLa, 6); Crête du Galibier, 28.VII.1995 (Ts, 3); Crête de Chaillol, 25.VII.1995 (Ts, 13); NW. of Col du Lautaret, 15.VII.1997 (ZiLa, 10); Le Grand Aréa, 1.VIII.1992 (Ts, 13); Le Petit Aréa, 1.VIII.1992 (Ts, 8); La Gardiole, 31.VII.1992 (Ts, 18), 2.VIII.1992 (Ts, 4), 27.VII.1995 (Ts, 8), 3.VIII.1997 (Ts, 10), 7.VIII.1998 (Ts, 73); Col de Cibières, 3.VIII.1997 (Ts, 5); Croix de la Cime, 13.VIII.1997 (Ts, 6); Prorel, 9.VII.1991 (Ts, 3), 12.VII.1991 (Ts, 19), 27.VII.1992 (ZiLa, 18), 30.VII.1992 (Ts, 50), 26.VII.1995 (Ts, 2), 22.VII.1996 (ZiLa, 16), 6.VIII.1998 (Ts, 24; ZiLa, 19); Crête du Rocher Blanc, 26.VII.1995 (Ts, 41), 9.VIII.1997 (Ts, 56), 6.VIII.1998 (Ts, 66); Glacier Noir, 10.VIII.1998 (Ts, 6); Glacier Blanc, 12.VIII.1998 (Ts, 3); La Pendine, 12.VIII.1997 (Ts, 10); Crête des Prés des Bancs, 12.VIII.1997 (Ts, 54); Col d'Izoard, 26.VII.1996 (ZiLa); Crête de Jambe Route, 4.VIII.1997 (Ts, 11). – 2190–2870 m.

Common species at high elevations in the Alps. Most specimens were collected on or near hilltops while they were sitting on stones or on the ground. Flowers (*Thymus*, *Senecio*, *Peucedanum*, *Gypsophila*) were visited occasionally.

Peleteria rubescens (Robineau-Desvoidy, 1830)

Alpine: Le Grand Aréa, 1.VIII.1992 (Ts); Prorel, 9.VII.1991 (Ts), 12.VII.1991 (Ts), 30.VII.1992 (Ts, 2), 6.VIII.1998 (ZiLa). – Subalpine: Tête d'Oreac, 12.VIII.1997 (Ts); Les Têtes, 14.VIII.1997 (Ts, 2), 5.VIII.1998 (Ts, 8; ZiLa, 5). – Montane: Le Lauzet, 23.VII.1996 (ZiLa); Névache, 2.VIII.1983 (Ts); Col de l'Echelle, 29.VI.1982 (Ts); Les Chapins, 14.VIII.1998 (Ts, 4); N. of Ailefroide, 1.VII.1982 (Ts); Col de la Pousterle, 5.VIII.1998 (ZiLa, 2), 9.VIII.1998 (Ts, 3); Les Mensals, 11.VIII.1998 (Ts, 2); Montagne de St-Genis, 30.V.2002 (Ts, 2). – Submontane: S. of l'Argentière, 14.VIII.1998 (Ts); SE. of St-Crépin, 4.VIII.1998 (ZiLa). – 950–2870 m.

On flowers (*Achillea*, *Mentha*, *Eryngium*, *Thymus*, *Scabiosa*) or swept from low vegetation. Several specimens were collected on mountain peaks while they were sitting on stones or on the ground.

Peleteria varia (Fabricius, 1794)

Submontane: E. of l'Argentière, 4.VII.1992 (Ts); S. of St-Crépin, 5.VII.1992 (Ts); Mont Dauphin, 5.VII.1992 (Ts, 4; Zi, 2). – 900–1000 m.

On flowers of *Laserpitium*.

Linnaemya comta (Fallén, 1810)

Alpine: NW. of Col du Lautaret, 7.VIII.1998 (ZiLa); Prorel, 12.VII.1991 (Ts). – Subalpine: E. of Col du Lautaret, 24.VII.1964 (He); Les Têtes, 5.VIII.1998 (Ts, 2; ZiLa). – Montane: Granon, 3.VIII.1983 (Ts); Les Alberts, 9.VII.1976 (He); Les Chapins, 14.VIII.1998 (Ts); Col de la Pousterle, 9.VIII.1998 (Ts, 4); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 2); Brunissard, 4.VIII.1983 (Ts, 2), 5.VII.1992 (Zi). – 1350–2570 m.

On flowers (*Achillea*, *Mentha*, *Laserpitium*, *Eryngium*, *Seseli*); two specimens were collected on mountain peaks, while they were sitting on stones or between low vegetation.

Linnaemya haemorrhoidalis (Fallén, 1810)

Subalpine: E. of Col du Lautaret, 26.VII.1995 (Ts). – 1900 m.

On flowers of *Laserpitium*.

Linnaemya helvetica Herting, 1963

Subalpine: E. of Col du Lautaret, 9.VII.1975 (He), 15.VII.1976 (He), 29.VII.1992 (Ts, 15; ZiLa, 14), 30.VII.1992 (Ts, 24), 31.VII.1992 (Ts, 15), 2.VIII.1992 (Ts, 21), 24.VII.1995 (Ts, 6); Pré de Mme Carle, 10.VIII.1998 (Ts, 2). – Montane: Le Lauzet, 31.VII.1992 (Ts, 16), 2.VIII.1992 (Ts, 19), 25.VII.1995 (Ts); Granon, 3.VIII.1983 (Ts, 2); Col de l'Echelle, 11.VII.1976 (He, 2), 2.VIII.1983 (Ts); Les Alberts, 6.VII.1975 (He, 2), 9.VII.1976 (He, 3); Queyrières, 2.VII.1982 (Ts, 6); N. of Ailefroide, 1.VIII.1983 (Ts, 2), 3.VIII.1983 (Ts), 5.VIII.1983 (Ts, 13), 29.VII.1985 (Ts, 27), 2.VIII.1985 (Ts, 4), 8.VII.1991 (Ts), 21.VII.1996 (ZiLa, 5), 5.VIII.1997 (Ts), 6.VIII.1997 (Ts, 4); Ailefroide, 7.VII.1975 (He), 10.VII.1976 (He, 2); Brunissard, 10.VII.1975 (He, 2), 1.VII.1982 (Ts, 4), 4.VIII.1983 (Ts), 7.VII.1991 (Ts, 44), 10.VII.1991 (Ts, 6), 11.VII.1991 (Ts, 36), 5.VII.1992 (Ts, 2; Zi, 4), 28.VII.1992 (ZiLa, 14), 26.VII.1996 (ZiLa), 13.VII.1997 (ZiLa). – Submontane: La Roche-de-Rame, 30.VI.1982 (Ts). – 950–1950 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*).

Linnaemya impudica (Rondani, 1859)

Montane: Montgenèvre, 8.VII.1975 (He); Briançon, 26.VII.1964 (He). – Submontane: E. of l'Argentière, 4.VII.1992 (Zi); S. of l'Argentière, 30.VIII.1976 (He, 2), 17.VI.1981 (Ts); SE. of St-Crépin, 4.VIII.1998 (ZiLa); Mont Dauphin, 5.VII.1992 (Ts). – 950–1800 m.

On flowers of Apiaceae (*Laserpitium*, *Daucus*).

Linnaemya media Zimin, 1954

Montane: Vallouise, 25.VII.1964 (He). – 1200 m.

Linnaemya olsufjevi Zimin, 1954

Subalpine: E. of Col du Lautaret, 24.VII.1964 (He); Pré de Mme Carle, 10.VIII.1998 (Ts). – Montane: Les Alberts, 1.VIII.1985 (Ts); Briançon, 23.VII.1964 (He, 7), 26.VII.1964 (He, 6); Vallouise, 25.VII.1964 (He, 2); Fournel, 14.VIII.1997 (Ts); Les Mensals, 7.VIII.1997 (Ts, 36), 11.VIII.1998 (Ts, 87); Brunissard, 4.VIII.1983 (Ts); Combe du Queyras, 23.VII.1964 (He, 2). – 1100–2000 m.

On flowers (*Angelica*, *Laserpitium*, *Peucedanum*, *Mentha*).

Linnaemya perinealis Pandellé, 1895

Alpine: Glacier Noir, 10.VIII.1998 (Ts). – Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts, 20; ZiLa, 2), 30.VII.1992 (Ts, 20), 31.VII.1992 (Ts, 19), 2.VIII.1992 (Ts, 27), 24.VII.1995 (Ts, 3), 25.VII.1995 (Ts, 4), 26.VII.1995 (Ts, 3); Pré de Mme Carle, 8.VIII.1998 (Ts), 10.VIII.1998 (Ts, 3); Les Têtes, 5.VIII.1998 (Ts, 19; ZiLa, 4). – Montane: Le Lauzet, 31.VII.1992 (Ts, 14), 2.VIII.1992 (Ts, 26), 25.VII.1995 (Ts), 23.VII.1996 (ZiLa, 2); Col de l'Echelle, 11.VII.1976 (He); N. of Ailefroide, 29.VII.1985 (Ts, 3), 5.VIII.1997 (Ts, 6), 6.VIII.1997 (Ts, 25), 10.VIII.1997 (Ts, 3); Col de la Pousterle, 5.VIII.1998 (Ts, 9; ZiLa, 5), 9.VIII.1998 (Ts, 26); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 2); Les Mensals, 7.VIII.1997 (Ts, 2), 11.VIII.1998 (Ts, 7); Brunissard, 28.VII.1992 (ZiLa, 2); Forêt de Boscodon, 1.VII.1997 (ZiLa). – Submontane: La Roche-de-Rame, 30.VI.1982 (Ts). – 950–2300 m.

On flowers (*Laserpitium*, *Peucedanum*, *Seseli*, *Angelica*, *Achillea*, *Mentha*).

Linnaemya tessellans (Robineau-Desvoidy, 1830)

Submontane: E. of l'Argentière, 25.VII.1964 (He). – 1000–1100 m.

Linnaemya vulpina (Fallén, 1810)

Subalpine: Les Têtes, 5.VIII.1998 (Ts). – Montane: Granon, 3.VIII.1983 (Ts, 2); Sarserra, 25.VII.1996 (ZiLa); Les Alberts, 1.VIII.1985 (Ts); Queyrières, 2.VII.1982 (Ts), 8.VII.1991 (Ts, 7); Les Chapins, 14.VIII.1998 (Ts); Col de la Pousterle, 5.VIII.1998 (ZiLa), 9.VIII.1998

(Ts, 4); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 8); Vallouise, 30.VI.1982 (Ts, 4); Fournel, 14.VIII.1997 (Ts); Les Mensals, 11.VIII.1998 (Ts, 8); Brunissard, 28.VII.1992 (ZiLa, 2). – Submontane: S. of l'Argentière, 29.VI.1982 (Ts); La Roche-de-Rame, 30.VI.1982 (Ts); Mont Dauphin, 5.VII.1992 (Ts). – 950–2000 m.

On flowers (Apiaceae, *Achillea*, *Mentha*).

Chrysosomopsis aurata (Fallén, 1820)

Montane: Prelles, 28.VII.1985 (Ts); N. of Ailefroide, 29.VII.1985 (Ts), 2.VIII.1985 (Ts), 5.VIII.1997 (Ts); Ailefroide, 10.VII.1976 (He); Fressinières, 13.VII.1976 (He, 5); Brunissard, 31.VII.1985 (Ts). – Submontane: S. of l'Argentière, 30.VIII.1976 (He). – 1000–1850 m.

On flowers of Apiaceae.

Lydina aenea (Meigen, 1824)

Montane: Les Alberts, 28.VIII.1976 (He); N. of Ailefroide, 29.VII.1985 (Ts); Brunissard, 4.VIII.1983 (Ts). – Submontane: Crots, 3.VIII.1998 (Ts). – 800–1850 m.

On flowers of Apiaceae (*Laserpitium*, *Daucus*).

Lypha dubia (Fallén, 1810)

Montane: N. of Ailefroide, 16.VI.1983 (Ts, 3), 17.VI.1983 (Ts, 3); S. of Col de la Pousterle, 26.V.2002 (Ts, 2); Forêt de Boscodon, 20.V.2002 (Ts), 26.V.2002 (Ts). – 1200–1600 m.

Swept from low vegetation or in yellow pan traps.

Ernestia rudis (Fallén, 1810)

Montane: Bois de Faye, 29.V.2002 (Ts, 4), 30.V.2002 (Ts, 3). – 1000–1200 m.

On leaves of trees and in yellow pan traps.

Fausta nemorum (Meigen, 1824)

Montane: N. of Ailefroide, 1.VII.1982 (Ts); Vallouise, 5.VII.1975 (He); Chabre, 21.V.2002 (Ts, 4), 24.V.2002 (Ts). – Submontane: St-Clément, 18.VI.1981 (Ts); Barret, 25.V.2002 (Ts). – 650–1700 m.

On flowers (Apiaceae, *Euphorbia*), or on leaves of trees and shrubs, hilltopping.

Eurithia caesia (Fallén, 1810) (males)

Alpine: Crête du Rocher Blanc, 26.VII.1995 (Ts). – Subalpine: E. of Col du Lautaret, 24.VII.1995 (Ts, 7), 25.VII.1995 (Ts, 3), 26.VII.1995 (Ts), 23.VII.1996 (ZiLa, 2). – Montane: La Grave, 15.VII.1997 (ZiLa); N. of Ailefroide, 1.VIII.1983 (Ts), 5.VIII.1983 (Ts), 29.VII.1985 (Ts, 5), 2.VIII.1985 (Ts, 2), 21.VII.1996 (ZiLa, 7), 6.VIII.1997 (Ts, 3); Brunissard, 31.VII.1985 (Ts), 11.VII.1991 (Ts). – 1450–2550 m (usually below 2000 m).

On flowers of *Laserpitium* or *Heracleum*; only one specimen was collected on a mountain crest on stones. – The records of Villeneuve (1909: 336) from La Grave and the Lautaret may refer to this or to another species of *Eurithia*.

Eurithia consobrina (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 31.VII.1992 (Ts); Pré de Mme Carle, 8.VIII.1997 (Ts), 8.VIII.1998 (Ts, 4), 10.VIII.1998 (Ts, 6). – Montane: La Grave, 15.VII.1997 (ZiLa); N. of Ailefroide, 5.VIII.1997 (Ts), 6.VIII.1997 (Ts, 2), 10.VIII.1997 (Ts, 3). – 1450–1950 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*, *Heracleum*).

Eurithia cristata (Villeneuve, 1920) (males)

Alpine: La Gardiole, 31.VII.1992 (Ts, 4), 27.VII.1995 (Ts, 2); Prorel, 12.VII.1991 (Ts, 7), 27.VII.1992 (ZiLa, 9), 30.VII.1992 (Ts, 4), 26.VII.1995 (Ts), 22.VII.1996 (ZiLa, 9); Crête du

Rocher Blanc, 26.VII.1995 (Ts, 2). – Montane: N. of Ailefroide, 8.VII.1991 (Ts), 21.VII.1996 (ZiLa). – 1600–2750 m (usually above 2500 m).

Nearly all specimens were collected on mountain peaks while they were sitting on stones; only one specimen was collected from flowers of *Laserpitium*. – Contrary to the description of Mesnil 1944–1975: 1053, this material has no setulae on vein R_1. *E. cristata* is known from the Alps (Hautes-Alpes), the Pyrenees, and the Apennines (Cerretti 2001). *E. armeniaca* Richter, which was described from the Caucasus, is very closely related and perhaps conspecific.

Eurithia fucosa Mesnil, 1975 (males)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts, 3; ZiLa, 7), 30.VII.1992 (Ts, 3), 31.VII.1992 (Ts), 24.VII.1995 (Ts, 2). – Montane: N. of Ailefroide, 17.VI.1983 (Ts), 5.VIII.1983 (Ts). – 1600–1950 m.

On flowers of *Laserpitium*.

Eurithia gemina (Mesnil, 1972) (males)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts), 30.VII.1992 (Ts), 24.VII.1995 (Ts, 12), 25.VII.1995 (Ts, 4), 26.VII.1995 (Ts, 4); Pré de Mme Carle, 8.VIII.1997 (Ts). – 1850–1950 m.

On flowers of *Laserpitium*.

Eurithia incongruens Herting, 1975 (males)

Alpine: Prorel, 12.VII.1991 (Ts), 22.VII.1996 (ZiLa, 2); Crête du Rocher Blanc, 26.VII.1995 (Ts, 2). – Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts, 2; ZiLa, 2), 30.VII.1992 (Ts, 6), 31.VII.1992 (Ts, 4), 2.VIII.1992 (Ts, 3), 25.VII.1995 (Ts, 2), 26.VII.1995 (Ts). – Montane: Ailefroide, 7.VII.1975 (He, 3), 10.VII.1976 (He). – 1450–2570 m (usually below 2000 m).

On flowers of *Laserpitium*; a few specimens were collected on hilltops.

Eurithia indigens (Pandellé, 1896) (males)

Subalpine: E. of Col du Lautaret, 24.VII.1995 (Ts), 25.VII.1995 (Ts, 3). – Montane: Le Lauzet, 2.VIII.1992 (Ts); Chalets du Verney, 25.VII.1996 (ZiLa, 2); Queyrières, 8.VII.1991 (Ts); Brunissard, 7.VII.1991 (Ts). – 1200–1950 m.

On flowers of *Laserpitium*.

Eurithia suspecta (Pandellé, 1896)

Alpine: Glacier Noir, 10.VIII.1998 (Ts); Glacier Blanc, 12.VIII.1998 (Ts). – Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts, 10; ZiLa, 7), 30.VII.1992 (Ts, 25), 31.VII.1992 (Ts, 9), 2.VIII.1992 (Ts, 10), 25.VII.1995 (Ts), 26.VII.1995 (Ts); Pré de Mme Carle, 8.VIII.1997 (Ts, 9), 10.VIII.1997 (Ts, 2), 8.VIII.1998 (Ts, 14), 10.VIII.1998 (Ts, 8). – Montane: Le Lauzet, 31.VII.1992 (Ts, 8), 2.VIII.1992 (Ts, 7); Col de l'Echelle, 2.VIII.1983 (Ts); Chalets du Verney, 25.VII.1996 (ZiLa, 2); Sarserra, 25.VII.1996 (ZiLa); Queyrières, 2.VII.1982 (Ts); N. of Ailefroide, 1.VIII.1983 (Ts), 3.VIII.1983 (Ts), 5.VIII.1983 (Ts, 16), 29.VII.1985 (Ts, 2), 2.VIII.1985 (Ts), 21.VII.1996 (ZiLa, 6), 5.VIII.1997 (Ts, 12), 6.VIII.1997 (Ts, 25), 10.VIII.1997 (Ts, 6); Ailefroide, 7.VII.1975 (He), 10.VII.1976 (He); Entre-les-Aigues, 13.VIII.1998 (Ts); Col de la Pousterle, 5.VIII.1998 (ZiLa), 9.VIII.1998 (Ts); S. of Col de la Pousterle, 9.VIII.1998 (Ts); Les Mensals, 11.VIII.1998 (Ts, 10); Brunissard, 1.VII.1982 (Ts), 4.VIII.1983 (Ts), 10.VII.1991 (Ts), 28.VII.1992 (ZiLa, 2), 13.VII.1997 (ZiLa, 4), 4.VIII.1997 (Ts). – 1200–2350 m.

On flowers (usually *Laserpitium* or *Peucedanum*, rarely also *Angelica*, *Seseli* or *Mentha*). – Perhaps the most common species of *Eurithia* in the Alps.

Eurithia vivida (Zetterstedt, 1838)

Subalpine: E. of Col du Lautaret, 31.VII.1992 (Ts), 2.VIII.1992 (Ts), 25.VII.1995 (Ts); Pré de Mme Carle, 10.VIII.1997 (Ts). – Montane: Névache, 2.VIII.1983 (Ts, 3); Col de l'Echelle,

11.VII.1976 (He); N. of Ailefroide, 1.VIII.1983 (Ts), 6.VIII.1997 (Ts), 10.VIII.1997 (Ts); S. of Col de la Pousterle, 9.VIII.1998 (Ts); Puy-St-Vincent, 12.VIII.1997 (Ts, 3); Brunissard, 4. VIII.1983 (Ts, 7), 28.VII.1992 (ZiLa). – 1600–1950 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*, *Seseli*).

Eurithia sp. (females of the *E. caesia*-group)

Alpine: Glacier Blanc, 12.VIII.1998 (Ts). – Subalpine: E. of Col du Lautaret, 8.VII.1976 (He), 29.VII.1992 (Ts, 6), 30.VII.1992 (Ts, 4), 31.VII.1992 (Ts, 3), 2.VIII.1992 (Ts, 3), 24.VII.1995 (Ts, 5), 25.VII.1995 (Ts, 5), 26.VII.1995 (Ts, 5); Pré de Mme Carle, 8.VIII.1997 (Ts), 8.VIII.1998 (Ts, 3), 10.VIII.1998 (Ts, 7). – Montane: Le Lauzet, 31.VII.1992 (Ts, 2), 2.VIII.1992 (Ts, 3); Col de l'Echelle, 29.VI.1982 (Ts); Les Alberts, 1.VIII.1985 (Ts); Montgenèvre, 8.VII.1975 (He); Queyrières, 2.VII.1982 (Ts); N. of Ailefroide, 29.VII.1985 (Ts, 20), 2.VIII.1985 (Ts, 2), 8.VII.1991 (Ts), 5.VIII.1997 (Ts), 6.VIII.1997 (Ts, 7), 10.VIII.1997 (Ts, 2); Brunissard, 4.VIII.1983 (Ts, 2), 31.VII.1985 (Ts), 11.VII.1991 (Ts, 2). – 1350–2350 m.

On flowers of *Laserpitium* and *Peucedanum*. The species of the *Eurithia caesia*-group can only be separated by the structure of their male genitalia. Females are currently not separable; the specimens cited above may either belong to *caesia*, *cristata*, *fucosa*, *gemina*, *incongruens*, or *indigens*.

Hyalurgus cruciger (Zetterstedt, 1838)

Subalpine: E. of Col du Lautaret, 9.VII.1975 (He, 3), 8.VII.1976 (He, 2). – Montane: Col de l'Echelle, 1.VIII.1985 (Ts); Chalets du Verney, 25.VII.1996 (ZiLa, 6); Sarserra, 25.VII.1996 (ZiLa, 2); Les Alberts, 9.VII.1976 (He); N. of Ailefroide, 17.VI.1983 (Ts), 29.VII.1985 (Ts); Ailefroide, 7.VII.1975 (He, 2), 10.VII.1976 (He); Brunissard, 10.VII.1975 (He, 2), 4.VIII.1983 (Ts), 31.VII.1985 (Ts, 17), 10.VII.1991 (Ts, 2), 26.VII.1996 (ZiLa, 52), 13.VII.1997 (ZiLa). – 1350–1950 m.

On flowers of Apiaceae (usually *Laserpitium*).

Hyalurgus lucidus (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 9.VII.1975 (He), 31.VII.1992 (Ts); Pré de Mme Carle, 8.VIII.1998 (Ts). – Montane: N. of Ailefroide, 29.VII.1985 (Ts, 9), 2.VIII.1985 (Ts, 6), 6.VIII.1997 (Ts), 10.VIII.1997 (Ts); Ailefroide, 10.VII.1976 (He, 2), 21.VII.1996 (ZiLa); Entre-les-Aigues, 13.VIII.1998 (Ts, 3); Les Mensals, 11.VIII.1998 (Ts). – 1400–1950 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*, *Seseli*, *Angelica*) or *Sedum*.

Gymnocheta viridis (Fallén, 1810)

Montane: Fournel, 26.V.2002 (Ts, 2). – 1400 m.

In yellow pan traps.

Zophomyia temula (Scopoli, 1763)

Subalpine: E. of Col du Lautaret, 14.VII.1997 (ZiLa). – Montane: Névache, 2.VIII.1983 (Ts); Les Alberts, 9.VII.1976 (He); Ailefroide, 10.VII.1976 (He, 2); Brunissard, 4.VIII.1983 (Ts). – Submontane: St-Clément, 18.VI.1981 (Ts). – 880–1950 m.

On flowers or swept from low vegetation. – Recorded from the Lautaret by Villeneuve (1905: 12) (30.VI.–2.VII.1903 [not 1904!]) and Ringdahl (1957: 121).

Loewia adjuncta Herting, 1971

Submontane: Mont Dauphin, 5.VII.1992 (Zi). – 920 m.

On flowers of *Laserpitium*.

Loewia alpestris (Villeneuve, 1920)

Alpine: NW. of Col du Lautaret, 7.VIII.1998 (ZiLa); Glacier Noir, 10.VIII.1998 (Ts, 7);

Glacier Blanc, 12.VIII.1998 (Ts). – Subalpine: Pré de Mme Carle, 8.VIII.1997 (Ts, 2). – Montane: N. of Ailefroide, 29.VII.1985 (Ts). – 1700–2350 m.

On flowers of Apiaceae (*Peucedanum*, *Laserpitium*, *Heracleum*). An additional specimen was collected in Savoie, slightly north of the border to the Hautes-Alpes: Plan Lachat, N. of Col du Galibier, 1.VIII.1998 (ZiLa). – A rare species which is only known from the Alps in France and Italy.

Loewia brevifrons (Rondani, 1856)

Subalpine: E. of Col du Lautaret, 8.VII.1976 (He), 15.VII.1976 (He, 2), 29.VII.1992 (Ts), 30.VII.1992 (Ts), 31.VII.1992 (Ts), 24.VII.1995 (Ts), 25.VII.1995 (Ts, 3), 26.VII.1995 (Ts); Pré de Mme Carle, 8.VIII.1997 (Ts, 6), 10.VIII.1997 (Ts, 2), 8.VIII.1998 (Ts, 3). – Montane: Combe de Malaval, 8.VII.1976 (He); Le Lauzet, 31.VII.1992 (Ts), 2.VIII.1992 (Ts); Col de l'Echelle, 2.VIII.1983 (Ts), 1.VIII.1985 (Ts); Sarserra, 25.VII.1996 (ZiLa); Les Alberts, 11.VII.1976 (He); La Vachette, 26.VII.1964 (He); N. of Ailefroide, 3.VIII.1983 (Ts, 5), 5.VIII.1983 (Ts, 2), 29.VII.1985 (Ts, 2), 2.VIII.1985 (Ts), 5.VIII.1997 (Ts, 5), 6.VIII.1997 (Ts, 2), 10.VIII.1997 (Ts); Ailefroide, 7.VII.1975 (He), 10.VII.1976 (He); Entre-les-Aigues, 13.VIII.1998 (Ts, 10); Vallouise, 5.VII.1975 (He, 2); Brunissard, 14.VII.1976 (He, 2), 4.VIII.1983 (Ts, 10), 31.VII.1985 (Ts, 2), 10.VII.1991 (Ts), 11.VII.1991 (Ts, 5), 26.VII.1996 (ZiLa, 7). – Submontane: E. of l'Argentière, 25.VII.1964 (He); Mont Dauphin, 28.VII.1996 (ZiLa, 2); St-Clément, 18.VI.1981 (Ts, 6). – 880–1950 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*, *Seseli*).

Loewia nudigena Mesnil, 1973

Montane: N. of Ailefroide, 1.VIII.1983 (Ts), 3.VIII.1983 (Ts), 5.VIII.1983 (Ts), 29.VII.1985 (Ts), 2.VIII.1985 (Ts); Brunissard, 4.VIII.1983 (Ts). – Submontane: Mont Dauphin, 5.VII.1992 (Zi). – 920–1850 m.

On flowers of *Laserpitium*.

Loewia phaeoptera (Meigen, 1824)

Submontane: Rourebeau, 28.V.2002 (Ts, 4). – 510 m.

In yellow pan traps.

Loewia submetallica (Macquart, 1855)

Submontane: NW. of St-Crépin, 17.VI.1983 (Ts); Barret, 25.V.2002 (Ts). – 650–950 m.

On flowers of Laserpitium or swept from grass.

Synactia parvula (Rondani, 1861)

Montane: Les Alberts, 1.VIII.1985 (Ts). – 1350 m.

On flowers of *Laserpitium*.

Eloceria delecta (Meigen, 1824)

Montane: Le Lauzet, 23.VII.1996 (ZiLa); Briançon, 26.VII.1964 (He); N. of Ailefroide, 5.VIII.1983 (Ts, 10); S. of Col de la Pousterle, 4.VIII.1998 (Ts, 3), 9.VIII.1998 (Ts, 2); Brunissard, 31.VII.1985 (Ts, 5), 7.VII.1991 (Ts, 2), 11.VII.1991 (Ts, 4), 26.VII.1996 (ZiLa, 3). – 1200–1850 m.

On flowers of Apiaceae (*Laserpitium*, *Seseli*) and *Achillea*.

Pseudopachystylum gonioides (Zetterstedt, 1838)

Subalpine: E. of Col du Lautaret, 30.VII.1992 (Ts), 31.VII.1992 (Ts), 2.VIII.1983 (Ts, 2). – Montane: Brunissard, 7.VII.1991 (Ts). – 1650–1950 m.

On flowers of *Laserpitium*.

Brachymera rugosa (Mik, 1863)

Subalpine: E. of Col du Lautaret, 15.VII.1976 (He), 29.VII.1992 (Ts, 6; ZiLa, 5), 30.VII.1992 (Ts, 3), 31.VII.1992 (Ts, 8), 2.VIII.1992 (Ts, 4), 24.VII.1995 (Ts), 23.VII.1996 (ZiLa); Pré de Mme Carle, 10.VIII.1998 (Ts, 2). – Montane: La Grave, 8.VII.1976 (He, 2); Le Lauzet, 31.VII.1992 (Ts, 8), 2.VIII.1992 (Ts, 21), 25.VII.1995 (Ts); Col de l'Échelle, 2.VIII.1983 (Ts), 1.VIII.1985 (Ts); Sarserra, 25.VII.1996 (ZiLa, 5); Les Alberts, 8.VII.1975 (He, 3), 9.VII.1976 (He, 2); N. of Ailefroide, 21.VII.1996 (ZiLa), 5.VIII.1997 (Ts, 2), 10.VIII.1997 (Ts, 2); Entre-les-Aigues, 6.VIII.1997 (Ts, 2), 13.VIII.1998 (Ts); Col de la Pousterle, 5.VIII.1998 (ZiLa); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 3); Brunissard, 28.VII.1992 (ZiLa). – 1350–1950 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*, *Seseli*) or slowly flying through low vegetation. – Recorded from La Grave by RINGDAHL (1957: 121), and from Chante-Merle (situated NW. of Briançon) as a parasitoid of *Megalodontes spissicornis* Klug (Pamphiliidae) in OILB-list 11: 38 [the latter locality erroneously cited as belonging to Drôme in this paper].

Pelatachina tibialis (Fallén, 1810)

Recorded from the Lautaret by RINGDAHL (1957: 121).

Macquartia chalconota (Meigen, 1824)

Montane: Ailefroide, 21.VII.1996 (ZiLa, 4); Bois de Faye, 29.V.2002 (Ts, 3), 30.V.2002 (Ts, 6); Chabre, 24.V.2002 (Ts). – 1100–1400 m.

On leaves of trees and shrubs or in yellow pan traps.

Macquartia dispar (Fallén, 1820)

Montane: Forêt de Boscodon, 20.V.2002 (Ts); Montagne de St-Genis, 30.V.2002 (Ts). – 1300–1600 m.

On leaves on a hilltop or swept from grass.

Macquartia grisea (Fallén, 1810)

Subalpine: Pré de Mme Carle, 10.VIII.1998 (Ts, 2). – 1850 m.

On flowers of *Peucedanum*.

Macquartia hystrix Mesnil, 1972

Described by MESNIL (1944–1975: 1101) from the Lautaret (VII.). – According to MESNIL's description the males of this species should have the frons distinctly wider than *M. tenebricosa* and the antenna shorter. It is strange that none of the authors of the present paper has collected this species.

Macquartia tenebricosa (Meigen, 1824)

Alpine: NW. of Col du Lautaret, 7.VIII.1998 (ZiLa, 4); Glacier Noir, 10.VIII.1998 (Ts, 2); Glacier Blanc, 12.VIII.1998 (Ts, 2). – Subalpine: E. of Col du Lautaret, 31.VII.1992 (Ts, 2), 20.VII.1996 (ZiLa); Pré de Mme Carle, 8.VIII.1997 (Ts, 4), 8.VIII.1998 (Ts, 3), 10.VIII.1998 (Ts, 2). – Montane: Chalets du Verney, 25.VII.1996 (ZiLa); N. of Ailefroide, 1.VIII.1983 (Ts, 6), 3.VIII.1983 (Ts, 4), 5.VIII.1983 (Ts, 3), 29.VII.1985 (Ts, 7), 2.VIII.1985 (Ts), 21.VII.1996 (ZiLa), 10.VIII.1997 (Ts); Ailefroide, 7.VII.1975 (He, 2); Brunissard, 10.VII.1975 (He). – 1450–2350 m.

On flowers (*Laserpitium*, *Peucedanum*, *Heracleum*, *Alchemilla*) or on leaves of low vegetation. – Recorded from the Lautaret by RINGDAHL (1957: 121). Without revision of the material, it cannot be decided whether the record of VILLENEUVE

(1905: 12) of *Macquartia chalconota* auct. from the Lautaret (30.VI.–2.VII.1903) refers to this species or to the true *M. chalconota*.

Macquartia tessellum (Meigen, 1824)

Montane: Forêt de Boscodon, 16.V.1999 (ZiLa), 20.V.2002 (Ts); Montagne de St-Genis, 30.V.2002 (Ts, 18); Chabre, 21.V.2002 (Ts, 5), 24.V.2002 (Ts, 3). – 1200–1430 m.

On hilltops on leaves, or on the ground, one specimen in a yellow pan trap.

Macquartia viridana Robineau-Desvoidy, 1863

Montane: Chabre, 19.V.2002 (Ts). – 1350 m.

Sitting on the ground on a hilltop.

Triarthria legeri (Villeneuve, 1908)

Alpine: Galibier, 6.VII.1992 (Ts, 14; Zi, 10), 29.VII.1992 (Ts, 5), 3.VIII.1992 (Ts); Prorel, 27.VII.1992 (ZiLa), 6.VIII.1998 (ZiLa). – Montane: Le Lauzet, 31.VII.1992 (Ts); N. of Ailefroide, 30.VI.1982 (Ts), 16.VI.1983 (Ts, 3); Brunissard, 10.VII.1975 (He), 5.VII.1992 (Ts), 28.VII.1992 (ZiLa). – 1600–2500 m.

Usually sitting or running on stones, rarely visiting flowers (*Euphorbia*, *Laserpitium*, *Gypsophila*). – Described by Villeneuve (1908b: 285) as *Bigonichaeta legeri* from the Lautaret (2075 m), and recorded from the same locality by Ringdahl (1957: 121).

Triarthria setipennis (Fallén, 1810)

Subalpine: E. of Col du Lautaret, 14.VII.1997 (ZiLa). – Montane: Les Alberts, 16.VII.1976 (He); N. of Ailefroide, 16.VI.1983 (Ts), 17.VI.1983 (Ts, 6); S. of Col de la Pousterle, 26.V.2002 (Ts); Montagne de St-Genis, 30.V.2002 (Ts); Chabre, 21.V.2002 (Ts, 2). – Submontane: NW. of St-Crépin, 26.V.2002 (Ts); Crots, 3.VIII.1998 (Ts). – 800–1950 m.

Collected from stones, swept from low vegetation, or in yellow pan traps; one male on a hilltop on leaves.

Phytomyptera cingulata (Robineau-Desvoidy, 1830)

Montane: Brunissard, 31.VII.1985 (Ts). – 1800–1900 m.

On flowers of *Laserpitium*.

Phytomyptera minutissima (Zetterstedt, 1844)

Montane: Col de l'Echelle, 2.VIII.1983 (Ts). – 1600–1750 m.

On flowers of *Laserpitium*.

Phytomyptera nigrina (Meigen, 1824)

Montane: Les Alberts, 16.VII.1976 (He, 5); Brunissard, 4.VIII.1983 (Ts, 3), 31.VII.1985 (Ts). – Submontane: Mont Dauphin, 5.VII.1992 (Zi). – 920–1850 m.

On flowers (*Laserpitium*).

Phytomyptera zonella (Zetterstedt, 1844)

Montane: Col de l'Echelle, 2.VIII.1983 (Ts), 1.VIII.1985 (Ts); N. of Ailefroide, 5.VIII.1983 (Ts); Brunissard, 10.VII.1975 (He), 26.VII.1996 (ZiLa). – 1600–1820 m.

On flowers of *Laserpitium*.

Graphogaster buccata Herting, 1971

Recorded by Villeneuve (1907: 15) [as *Graphogaster vestita* Rond. = *punctata*

Schin. i. litt.]: Lautaret, "avec la précédente" [= *G. dispar*]; already mentioned by VILLENEUVE (1905: 12) as *Graphogaster?vestitus* Rond. collected between 30.VI. and 2.VII.1903 [not 1904!]. MESNIL (1944–1975: 1202) described a male from this series (bearing the date 2.VII.1903) as ssp. *hirtipleura*. – A rare species, which is also known from the Alps in Switzerland, Austria, and Italy, and also from Finland.

Graphogaster dispar (Brauer & Bergenstamm, 1889)

Subalpine: E. of Col du Lautaret, 31.VII.1992 (Ts). – Montane: Brunissard, 4.VIII.1983 (Ts), 31.VII.1985 (Ts), 10.VII.1991 (Ts). – 1800–1950 m.

Rare species on flowers of *Laserpitium*. – Recorded from the Lautaret (1.VII.1903 [not 1904!]) by VILLENEUVE (1907: 15) and from La Grave by RINGDAHL (1957: 121).

Graphogaster nigrisquamata Tschorsnig, 1989

Montane: Brunissard, 31.VII.1985 (Ts). – 1850 m (the elevation in the description is erroneously given as 1650 m).

On flowers of Apiaceae. – After its description from Brunissard, this rare species has also been found in the Alps in Switzerland.

Ancistrophora mikii Schiner, 1865

Alpine: Le Grand Aréa, 1.VIII.1992 (Ts); La Gardiole, 31.VII.1992 (Ts, 3), 2.VIII.1992 (Ts, 9), 27.VII.1995 (Ts, 21), 3.VIII.1997 (Ts, 7), 7.VIII.1998 (Ts, 26). – Subalpine: Pré de Mme Carle, 8.VIII.1998 (Ts). – 1850–2870 m.

A small alpine species which is often seen sitting on or flying between rock debris or visiting flowers (*Cerastium*, *Senecio*, *Doronicum*). Most specimens have been collected on or near mountain peaks, but only a few specimens were recorded from the highest points.

Goniocera montium (Villeneuve, 1921)

Described by VILLENEUVE (1921: 47) as *Actia* sg. *Euchaetactia montium* from the Lautaret; an additional record from the Montgenèvre is mentioned by MESNIL (1944–1975: 799). Known before only from the Hautes-Alpes, but recently found also in the Alps in Italy (TSCHORSNIG 2001) and Switzerland (MERZ et al. 2001).

Goniocera schistacea Brauer & Bergenstamm, 1891

Montane: N. of Ailefroide, 16.VI.1983 (Ts, 2); Fournel, 26.V.2002 (Ts); Forêt de Boscodon, 20.V.2002 (Ts, 2). – 1400–1600 m.

Swept from low vegetation. – Recorded from the Lautaret by RINGDAHL (1957: 122).

Ceromya bicolor (Meigen, 1824)

Subalpine: Pré de Mme Carle, 8.VIII.1998 (Ts, 2). – Montane: N. of Ailefroide, 17.VI.1983 (Ts), 5.VIII.1983 (Ts, 2). – Submontane: Mont Dauphin, 28.VII.1996 (ZiLa). – 920–1900 m.

On flowers (*Laserpitium*, *Peucedanum*) or swept from low vegetation. – Recorded from the Col du Lautaret as a parasitoid of *Eriogaster lanestris* Linnaeus (Lasiocampidae) by FORD et al. (2000: 34).

Actia crassicornis (Meigen, 1824)

Subalpine: Pré de Mme Carle, 8.VIII.1998 (dub-Ts). – Montane: Col de l'Echelle,

1.VIII.1985 (Ts); Les Alberts, 16.VII.1976 (He, 2); S. of Col de la Pousterle, 9.VIII.1998 (dub-Ts); Brunissard, 4.VIII.1983 (dub-Ts), 31.VII.1985 (dub-Ts), 31.VII.1985 (Ts, 6), 28.VII.1992 (ZiLa). – Submontane: S. of l'Argentière, 30.VIII.1976 (He); Mont Dauphin, 5.VII.1992 (Zi, 2). – 920–1900 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*, *Seseli*). – *Actia dubitata* Herting, 1971, is – after ANDERSEN (1996) – only a form of *A. crassicornis*. Specimens of the var. *dubitata* are marked with "dub-" in the list above.

Actia infantula (Zetterstedt, 1844)

Submontane: Mont Dauphin, 28.VII.1996 (ZiLa), 13.VII.1997 (ZiLa). – 920 m.

On flowers of *Laserpitium*.

Actia lamia (Meigen, 1838)

Submontane: W. of Mont Dauphin, 14.VIII.1998 (Ts); Crots, 3.VIII.1998 (Ts, 6). – 800–900 m.

Swept from meadows with flowering *Pastinaca* and *Daucus*.

Actia maksymovi Mesnil, 1952

Montane: N. of Ailefroide, 29.VII.1985 (Ts, 6), 2.VIII.1985 (Ts); Brunissard, 26.VII.1996 (ZiLa). – 1550–1820 m.

On flowers of *Laserpitium*. – Recorded from Briançon and Montgenèvre as a parasitoid of *Zeiraphera diniana* Guenée (Tortricidae) in OILB-lists 8: 52 and 11: 36.

Actia pilipennis (Fallén, 1810)

Montane: Les Alberts, 16.VII.1976 (He); N. of Ailefroide, 29.VII.1985 (Ts, 3). – 1350–1700 m.

On flowers of Apiaceae.

Peribaea apicalis Robineau-Desvoidy, 1863

Montane: La Vachette, 26.VII.1964 (He); Col de Manse, 11.VI.1964 (He). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts, 2); Crots, 3.VIII.1998 (Ts). – 800–1350 m.

Swept from meadows with flowering *Daucus*, *Pastinaca*, and *Achillea*. – The species name *apicalis* is used in this paper in its accustomed sense (nec ANDERSEN 1996).

Peribaea tibialis (Robineau-Desvoidy, 1851)

Montane: Briançon, 6.VI.1997 (SCHMID-EGGER); Queyrières, 2.VII.1982 (Ts, 2), 8.VII.1991 (Ts); Vallouise, 10.VII.1976 (He); Les Mensals, 11.VIII.1998 (Ts); Combe du Queyras, 26.VII.1996 (ZiLa). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts, 2; Zi, 13), 27.VII.1992 (ZiLa, 9); S. of l'Argentière, 17.VI.1981 (Ts), 10.VIII.1997 (Ts, 9); NW. of St-Crépin, 4.VIII.1998 (Ts, 2); SE. of St-Crépin, 4.VIII.1998 (ZiLa); Mont Dauphin, 5.VII.1992 (Ts, 2), 28.VII.1996 (ZiLa, 5); Crots, 3.VIII.1998 (Ts, 2); Gap, 11.VII.1990 (BARTÁK, 2). – 700–1400 m.

Swept from flowers (*Laserpitium*, *Daucus*) and grass.

Aphantorhaphopsis selecta (Pandellé, 1894)

Submontane: Mont Dauphin, 5.VII.1992 (Zi). – 920 m.

On flowers of *Laserpitium*.

Ceranthia tristella Herting, 1966

Montane: Montgenèvre, 12.VII.1990 (Bartàk); N. of Ailefroide, 29.VII.1985 (Ts). – 1600–1800 m.

Swept from flowers.

Siphona boreata Mesnil, 1960

Montane: Forêt de Boscodon, 1.VII.1997 (ZiLa). – 1170 m.

Swept from low vegetation.

Siphona collini Mesnil, 1960

Montane: Roche Baron, 28.VII.1992 (ZiLa). – Submontane: S. of l'Argentière, 30.VIII.1976 (He, 2); NW. of St-Crépin, 4.VIII.1998 (Ts). – 920–1200 m.

Swept from flowers and grass, or sitting on stones.

Siphona confusa Mesnil, 1961

Montane: Roche Baron, 28.VII.1992 (ZiLa, 2). – 1200 m.

Collected from stones. – Recorded from the Col de Vars, ca. 2000 m, ex unidentified geometrid larva on Compositae by Ford et al. (2000: 34).

Siphona flavifrons Staeger, 1849

Montane: Forêt de Boscodon, 1.VII.1997 (ZiLa). – 1700 m.

Swept from low vegetation.

Siphona geniculata (Degeer, 1776)

Montane: Les Alberts, 9.VII.1976 (He); Les Mensals, 11.VIII.1998 (Ts); Forêt de Boscodon, 1.VII.1997 (ZiLa). – 1170–1400 m.

Swept from low vegetation. – The species name *geniculata* is used in this paper in its accustomed sense (nec Andersen 1996).

Siphona grandistylum Pandellé, 1894

Montane: Les Alberts, 8.VII.1975 (He); Forêt de Boscodon, 1.VII.1997 (ZiLa). – 1350–1650 m.

Swept from low vegetation.

Siphona variata Andersen, 1982

Montane: Les Alberts, 28.VIII.1976 (He, 2); S. of Col de la Pousterle, 4.VIII.1998 (Ts, 2). – Submontane: NW. of St-Crépin, 17.VI.1983 (Ts). – 950–1600 m.

Swept from meadows with flowering *Seseli.*

Aphria latifrons Villeneuve, 1908

Montane: Roche Baron, 28.VII.1992 (ZiLa). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts); SE. of St-Crépin, 4.VIII.1998 (ZiLa). – 920–1200 m.

Rare species. Swept from meadows with flowering *Eryngium*, *Daucus*, and *Mentha*, and collected from stones.

Aphria longilingua Rondani, 1861

Montane: Vallouise, 25.VII.1964 (He); Les Mensals, 11.VIII.1998 (Ts). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts); Mont Dauphin, 28.VII.1996 (ZiLa, 3); Guillestre, 31.VII.1985 (Ts). – 900–1400 m.

On flowers of *Mentha* and *Laserpitium*. – One female recorded by Villeneuve

(1907: 36) [as *Demoticus*] from La Grave, 29.VI.1903; the same specimen was mentioned by VILLENEUVE (1905: 9) as *Plagiopsis soror* Zett.

Aphria longirostris (Meigen, 1824)

Subalpine: Pré de Mme Carle, 10.VIII.1997 (Ts). – Montane: Plampinet, 13.VIII.1997 (Ts, 2); Sarserra, 25.VII.1996 (ZiLa); Queyrières, 30.VI.1982 (Ts), 2.VII.1982 (Ts, 2); Les Chapins, 14.VIII.1998 (Ts, 6); Ailefroide, 10.VII.1976 (He); S. of Col de la Pousterle, 14.VIII.1998 (Ts); Vallouise, 25.VII.1964 (He, 2); Les Mensals, 11.VIII.1998 (Ts); Brunissard, 26.VII.1996 (ZiLa), 13.VII.1997 (ZiLa); Forêt de Boscodon, 26.V.2002 (Ts); Chabre, 24.V.2002 (Ts, 2). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts); S. of l'Argentière, 30.VIII.1976 (He); NW. of St-Crépin, 4.VIII.1998 (Ts, 5); SE. of St-Crépin, 4.VIII.1998 (Ts, 5; ZiLa, 6); Mont Dauphin, 24.VII.1996 (ZiLa), 28.VII.1996 (ZiLa, 3). – 920–1900 m.

On flowers (*Eryngium*, *Thymus*, *Mentha*, *Laserpitium*, *Daucus*, *Achillea*) or swept from low vegetation. Two specimens were collected while they were sitting on stones near a brook, two specimens on a hilltop.

Demoticus plebejus (Fallén, 1810)

Montane: Le Lauzet, 31.VII.1992 (Ts), 2.VIII.1992 (Ts, 2); N. of Ailefroide, 5.VIII.1997 (Ts); Entre-les-Aigues, 6.VIII.1997 (Ts, 2), 13.VIII.1998 (Ts, 2); Les Mensals, 11.VIII.1998 (Ts). – Submontane: St-Clément, 18.VI.1981 (Ts). – 880–1800 m.

On flowers of Apiaceae (*Laserpitium*, *Seseli*, *Angelica*).

Bithia acanthophora (Rondani, 1861)

Montane: Chalets du Verney, 25.VII.1996 (ZiLa). – 1800 m.

On flowers of Apiaceae.

Bithia demotica (Egger, 1861)

Subalpine: E. of Col du Lautaret, 24.VII.1964 (He), 26.VII.1992 (ZiLa, 5), 29.VII.1992 (ZiLa, 4), 24.VII.1995 (Ts, 2), 20.VII.1996 (ZiLa, 2), 23.VII.1996 (ZiLa). – Montane: La Grave, 22.VII.1964 (He); Les Chapins, 14.VIII.1998 (Ts, 2); S. of Col de la Pousterle, 14.VIII.1998 (Ts); Brunissard, 4.VIII.1983 (Ts, 3), 31.VII.1985 (Ts), 7.VII.1991 (Ts, 2), 10.VII.1991 (Ts, 2), 28.VII.1992 (ZiLa). – Submontane: SE. of St-Crépin, 4.VIII.1998 (Ts, 3; ZiLa, 37); Prunières, 1.VII.1997 (ZiLa); Rourebeau, 29.V.2002 (Ts). – 510–1950 m.

On flowers (*Laserpitium*, *Eryngium*, *Seseli*, *Daucus*, *Leucanthemum*) or swept from low vegetation, one specimen in a yellow pan trap. – The record of *Rhinotachina modesta* Meig. from La Grave by RINGDAHL (1957: 121) may refer to this species, but it cannot be confirmed without a revision of the material.

Bithia immaculata (Herting, 1971)

Subalpine: Pré de Mme Carle, 10.VIII.1998 (Ts). – Montane: Roche Baron, 28.VII.1992 (ZiLa, 3); Vallouise, 30.VI.1982 (Ts). – Submontane: E. of l'Argentière, 12.VII.1976 (He), 4.VII.1992 (Zi). – 1000–1850 m.

On flowers (*Achillea*, *Laserpitium*, *Senecio*).

Bithia jacentkovskyi (Villeneuve, 1937)

Montane: Granon, 3.VIII.1983 (Ts). – 1700 m.

On flowers of *Mentha*.

Bithia spreta (Meigen, 1824)

Montane: Plampinet, 13.VIII.1997 (Ts). – Submontane: S. of l'Argentière, 30.VIII.1976 (He); Crots, 3.VIII.1998 (Ts, 2). – 800–1450 m.

Swept from flowers of Apiaceae (*Seseli*, *Daucus*).

Solieria fenestrata (Meigen, 1824)

Montane: La Vachette, 26.VII.1964 (He, 2); Villard St-Pancrace, 23.VII.1964 (He); N. of Ailefroide, 30.VI.1982 (Ts); Brunissard, 11.VII.1991 (Ts, 2). – Submontane: Prunières, 1.VII.1997 (ZiLa); Barret, 25.V.2002 (Ts, 2). – 650–1850 m.

On flowers of *Laserpitium*.

Solieria inanis (Fallén, 1810)

Montane: Granon, 3.VIII.1983 (Ts); Brunissard, 5.VII.1992 (Zi, 3). – 1700–1820 m.

On flowers of white Apiaceae or *Mentha*.

Solieria pacifica (Meigen, 1824)

Montane: Les Alberts, 8.VII.1975 (He); Entre-les-Aigues, 6.VIII.1997 (Ts); Brunissard, 31.VII.1985 (Ts, 2), 5.VII.1992 (Ts, 2; Zi), 28.VII.1992 (ZiLa). – Submontane: SE. of St-Crépin, 4.VIII.1998 (ZiLa, 10); Crots, 3.VIII.1998 (Ts, 43); Espinasses, 28.V.2002 (Ts). – 700–1850 m.

On flowers of Apiaceae (*Daucus*, *Seseli*, *Laserpitium*) or swept from meadows.

Mintho rufiventris (Fallén, 1817)

Montane: Chabre, 19.V.2002 (Ts, 3), 21.V.2002 (Ts, 40), 24.V.2002 (Ts, 26). – Submontane: Mont Dauphin, 5.VII.1992 (Zi); Crots, 3.VIII.1998 (Ts); Rourebeau, 28.V.2002 (Ts). – 510–1350 m.

In numbers on stones or on the ground on a hilltop (typical behaviour), in yellow pan traps, or swept from meadows with flowering *Daucus*, *Pastinaca*, and *Achillea*.

Minthodes picta (Zetterstedt, 1844)

Subalpine: E. of Col du Lautaret, 24.VII.1964 (He), 9.VII.1975 (He), 26.VII.1992 (ZiLa), 29.VII.1992 (ZiLa, 2), 7.VIII.1998 (ZiLa, 2); Pré de Mme Carle, 8.VIII.1997 (Ts), 8.VIII.1998 (Ts); Les Têtes, 5.VIII.1998 (Ts, 5; ZiLa, 6). – Montane: La Grave, 22.VII.1964 (He, 6); Le Lauzet, 31.VII.1992 (Ts, 2), 2.VIII.1992 (Ts, 11); Col de l'Echelle, 11.VII.1976 (He, 2), 2.VIII.1983 (Ts, 99), 1.VIII.1985 (Ts, 153); La Vachette, 26.VII.1964 (He, 12); Briançon, 26.VII.1964 (He); Les Chapins, 14.VIII.1998 (Ts); N. of Ailefroide, 17.VI.1983 (Ts, 2), 1.VIII.1983 (Ts, 2), 5.VIII.1983 (Ts, 7), 29.VII.1985 (Ts, 2), 10.VIII.1997 (Ts, 2); Entre-les-Aigues, 13.VIII.1998 (Ts, 10); Col de la Pousterle, 2.VIII.1998 (ZiLa), 5.VIII.1998 (ZiLa, 3); S. of Col de la Pousterle, 4.VIII.1998 (Ts, 3), 9.VIII.1998 (Ts, 25), 26.V.2002 (Ts, 7); Les Mensals, 11.VIII.1998 (Ts); Brunissard, 4.VIII.1983 (Ts, 8), 31.VII.1985 (Ts, 3), 26.VII.1996 (ZiLa, 3). – 1350–2050 m.

Arcto-alpine species, which feeds on flowers (*Achillea*, *Laserpitium*, *Peucedanum*, *Seseli*, *Eryngium*, *Angelica*, *Euphorbia*). – Described by Villeneuve (1910: 90) as *Minthodes monticola* from La Grave and the Lautaret (July 1908). Also recorded from La Grave by Ringdahl (1957: 121).

Hyperaea femoralis (Meigen, 1824)

Montane: Le Monêtier-les-Bains, 22.VII.1964 (He); Sarserra, 25.VII.1996 (ZiLa); La Vachette, 26.VII.1964 (He, 2); Les Chapins, 14.VIII.1998 (Ts); Fressinières, 13.VII.1976 (He); Brunissard, 14.VII.1976 (He), 4.VIII.1983 (Ts, 13), 31.VII.1985 (Ts, 2), 26.VII.1996 (ZiLa). – Submontane: Guillestre, 31.VII.1985 (Ts). – 900–1850 m.

On flowers (*Achillea*, *Laserpitium*, *Eryngium*, *Mentha*).

Melisoneura leucoptera (Meigen, 1824)

Montane: Les Alberts, 6.VII.1975 (He, 6), 9.VII.1976 (He, 2). – Submontane: NW. of St-Crépin, 17.VI.1983 (Ts, 3). – 920–1350 m.

Swept from grass.

4.4 Subfamily Dexiinae

Trixa conspersa (Harris, 1776)

Alpine: Crête du Rocher Blanc, 9.VIII.1997 (Ts); Crête des Prés des Bancs, 12.VIII.1997 (Ts). – Subalpine: Les Têtes, 14.VIII.1997 (Ts), 15.VIII.1997 (Ts). – Montane: Bois de Faye, 30.V.2002 (Ts). – Submontane: Laragne-Montéglin, 21.V.2002 (Ts). – 550–2550 m.

Males and females were collected on the highest points on mountain crests and peaks while they were sitting on stones or on the branches of low *Juniperus*; two specimens in yellow pan traps. – Recorded by VILLENEUVE (1928: 50) as *T. oestroidea* R. D. from the Lautaret.

Billaea irrorata (Meigen, 1826)

Montane: Les Alberts, 12.VII.1975 (He); N. of Ailefroide, 2.VIII.1985 (Ts); Combe du Queyras, 26.VII.1996 (ZiLa). – Submontane: S. of l'Argentière, 17.VI.1981 (Ts); St-Clément, 18.VI.1981 (Ts). – 880–1700 m.

On flowers (*Laserpitium*, *Daucus*).

Billaea pectinata (Meigen, 1826)

Montane: S. of Col de la Pousterle, 9.VIII.1998 (Ts); Vallouise, 11.VII.1975 (He). – Submontane: Mont Dauphin, 24.VII.1996 (ZiLa), 28.VII.1996 (ZiLa, 8). – 920–1600 m.

On flowers of *Laserpitium* or *Seseli*.

Billaea triangulifera (Zetterstedt, 1844)

Subalpine: E. of Col du Lautaret, 15.VII.1976 (He). – Montane: Plampinet, 13.VIII.1997 (Ts); N. of Ailefroide, 1.VIII.1983 (Ts), 5.VIII.1983 (Ts), 6.VIII.1997 (Ts); Entre-les-Aigues, 13.VIII.1998 (Ts). – 1600–1900 m.

On flowers of Apiaceae (*Laserpitium*, *Seseli*).

Dinera carinifrons (Fallén, 1817)

Alpine: NW. of Col du Lautaret, 15.VII.1997 (ZiLa); La Gardiole, 7.VIII.1998 (Ts, 2); Prorel, 6.VIII.1998 (ZiLa, 4); Glacier Noir, 10.VIII.1998 (Ts, 3); Glacier Blanc, 12.VIII.1998 (Ts, 11); Crête des Prés des Bancs, 12.VIII.1997 (Ts). – Subalpine: Col du Lautaret, 23.VII.1996 (ZiLa); E. of Col du Lautaret, 24.VII.1964 (He, 2), 31.VII.1983 (Ts, 2), 29.VII.1992 (Ts, 7; ZiLa, 17), 30.VII.1992 (Ts), 31.VII.1992 (Ts, 3), 2.VIII.1992 (Ts, 3), 24.VII.1995 (Ts), 23.VII.1996 (ZiLa, 15), 14.VII.1997 (ZiLa, 15), 2.VIII.1997 (Ts), 7.VIII.1998 (ZiLa, 15); Pré de Mme Carle, 8.VIII.1997 (Ts, 21), 10.VIII.1997 (Ts, 6), 8.VIII.1998 (Ts, 27), 10.VIII.1998 (Ts, 8); Tête d'Oreac, 12.VIII.1997 (Ts); Les Têtes, 5.VIII.1998 (Ts; ZiLa, 5). – Montane: Le Lauzet, 2.VIII.1992 (Ts, 6), 25.VII.1995 (Ts, 2), 23.VII.1996 (ZiLa, 3); Granon, 3.VIII.1983 (Ts, 2); Col de l'Echelle, 11.VII.1976 (He), 2.VIII.1983 (Ts, 5), 1.VIII.1985 (Ts); Plampinet, 13.VIII.1997 (Ts, 4); Sarserra, 25.VII.1996 (ZiLa, 4); Briançon, 6.VI.1997 (SCHMID-EGGER); Queyrières, 30.VI.1982 (Ts), 2.VII.1982 (Ts); Les Chapins, 14.VIII.1998 (Ts); N. of Ailefroide, 1.VII.1982 (Ts, 15), 1.VIII.1983 (Ts, 19), 5.VIII.1983 (Ts, 6), 29.VII.1985 (Ts, 31), 2.VIII.1985 (Ts), 5.VIII.1997 (Ts, 2), 6.VIII.1997 (Ts, 11), 10.VIII.1997 (Ts, 30); Ailefroide, 21.VII.1996 (ZiLa); Entre-les-Aigues, 6.VIII.1997 (Ts, 2), 13.VIII.1998 (Ts, 25); S. of Col de la Pousterle, 9.VIII.1998 (Ts); Puy-St-Vincent, 12.VIII.1997 (Ts, 3); Les Prés, 21.VII.1996 (ZiLa); Les Mensals, 7.VIII.1997 (Ts, 19), 11.VIII.1998 (Ts, 68); Brunissard, 4.VIII.1983 (Ts, 4), 31.VII.1985 (Ts, 11), 7.VII.1991 (Ts, 4), 11.VII.1991 (Ts, 4), 28.VII.1992 (ZiLa, 10), 26.VII.1996 (ZiLa, 2), 13.VII.1997 (ZiLa, 8), 4.VIII.1997 (Ts); Forêt de Boscodon, 1.VII.1997 (ZiLa, 6), 20.V.2002 (Ts). – Submontane: Espinasses, 28.V.2002 (Ts, 2). – 700–2570 m.

Common species on flowers (Apiaceae, *Thymus*, *Mentha*, *Achillea*, *Leucanthemum*, *Gypsophila*). – Recorded from La Grave by RINGDAHL (1957: 121). It is not

yet known whether the densely pruinescent specimens of *D. carinifrons*, which are more common at high elevations, belong to a separate species or not.

Dinera grisescens (Fallén, 1817)

Montane: Briançon, 26.VII.1964 (He, 5). – 1250 m.

Estheria bohemani (Rondani, 1862)

Montane: N. of Ailefroide, 1.VIII.1983 (Ts). – 1600–1700 m.

On flowers of Apiaceae.

Estheria cristata (Meigen, 1826)

Subalpine: E. of Col du Lautaret, 15.VII.1976 (He); Les Têtes, 14.VIII.1997 (Ts), 5.VIII.1998 (Ts, 8; ZiLa, 9). – Montane: Granon, 3.VIII.1983 (Ts, 3); Brunissard, 11.VII.1991 (Ts), 28.VII.1992 (ZiLa, 7), 26.VII.1996 (ZiLa, 17), 4.VIII.1997 (Ts, 9); Vallée de Rabious, 3.VIII.1998 (ZiLa). – Submontane: S. of l'Argentière, 30.VIII.1976 (He, 6); NW. of St-Crépin, 4.VIII.1998 (ZiLa); SE. of St-Crépin, 4.VIII.1998 (ZiLa). – 900–2050 m.

On flowers (*Laserpitium*, *Daucus*, *Achillea*, *Mentha*).

Estheria microcera (Robineau-Desvoidy, 1830)

Submontane: St-Clément, 18.VI.1981 (Ts); Prunières, 1.VII.1997 (ZiLa, 11). – 850–880 m.

On flowers of *Laserpitium*.

Estheria petiolata (Bonsdorff, 1866)

Alpine: Crête des Prés des Bancs, 12.VIII.1997 (Ts, 2). – Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts, 4), 31.VII.1992 (Ts), 2.VIII.1992 (Ts), 7.VIII.1998 (ZiLa, 4); Pré de Mme Carle, 8.VIII.1997 (Ts, 50), 10.VIII.1997 (Ts, 36), 8.VIII.1998 (Ts, 121), 10.VIII.1998 (Ts, 71); Tête d'Oreac, 12.VIII.1997 (Ts, 9); Les Têtes, 14.VIII.1997 (Ts, 8), 15.VIII.1997 (Ts, 10), 2.VIII.1998 (ZiLa). – Montane: Le Lauzet, 2.VIII.1992 (Ts), 25.VII.1995 (Ts); Le Monêtier-les-Bains, 22.VII.1964 (He); Granon, 3.VIII.1983 (Ts, 5); Col de l'Echelle, 2.VIII.1983 (Ts, 8), 1.VIII.1985 (Ts, 6); Plampinet, 13.VIII.1997 (Ts, 2); Sarserra, 25.VII.1996 (ZiLa); La Vachette, 26.VII.1964 (He); Briançon, 26.VII.1964 (He); Villard St-Pancrace, 23.VII.1964 (He); Les Chapins, 14.VIII.1998 (Ts); N. of Ailefroide, 30.VI.1982 (Ts), 1.VIII.1983 (Ts, 26), 5.VIII.1983 (Ts, 6), 29.VII.1985 (Ts, 5), 2.VIII.1985 (Ts), 6.VIII.1997 (Ts, 2), 10.VIII.1997 (Ts, 5); Entre-les-Aigues, 6.VIII.1997 (Ts, 12), 13.VIII.1998 (Ts, 20); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 3); Le Laus, 14.VII.1976 (He, 2); Brunissard, 4.VIII.1983 (Ts, 12), 26.VII.1996 (ZiLa), 4.VIII.1997 (Ts, 7). – Submontane: S. of l'Argentière, 8.VIII.1997 (Ts, 83), 10.VIII.1997 (Ts, 7); Mont Dauphin, 5.VII.1992 (Zi). – 920–2500 m (usually between 1300 and 2100 m).

During this investigation it was found to be a common species on flowers (Apiaceae, *Achillea*, *Thymus*, *Leucanthemum*, *Euphorbia*), sometimes also sitting on stones.

Dexia rustica (Fabricius, 1775)

Montane: Les Alberts, 28.VIII.1976 (He, 2); S. of Col de la Pousterle, 4.VIII.1998 (Ts, 9), 9.VIII.1998 (Ts, 2); Brunissard, 4.VIII.1983 (Ts, 10), 31.VII.1985 (Ts, 3), 26.VII.1996 (ZiLa). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts, 3; ZiLa, 2); SE. of St-Crépin, 4.VIII.1998 (ZiLa, 2). – 900–1850 m.

On flowers of Apiaceae (*Laserpitium*, *Seseli*, *Daucus*) and *Mentha*.

Prosena siberita (Fabricius, 1775)

Montane: Villard St-Pancrace, 23.VII.1964 (He). – Submontane: E. of l'Argentière, 13.VII.1997 (ZiLa); S. of l'Argentière, 8.VIII.1997 (Ts, 2), 10.VIII.1997 (Ts, 3), 14.VIII.1998

(Ts, 3); NW. of St-Crépin, 4.VIII.1998 (Ts, 6; ZiLa, 2); SE. of St-Crépin, 4.VIII.1998 (Ts); Crots, 3.VIII.1998 (Ts, 33). – 800–1250 m.

Swept from flowers (*Mentha*, *Eryngium*, *Daucus*, *Cirsium*).

Zeuxia cinerea Meigen, 1826

Montane: Chalets du Verney, 25.VII.1996 (ZiLa); La Vachette, 26.VII.1964 (He, 2); S. of Col de la Pousterle, 4.VIII.1998 (Ts), 9.VIII.1998 (Ts, 3); Vallouise, 11.VII.1975 (He); Fressinières, 13.VII.1976 (He). – Submontane: Crots, 3.VIII.1998 (Ts); Col de Faye, 29.V.2002 (Ts); Le Poët, 29.V.2002 (Ts). – 650–1800 m.

Swept from meadows with flowering Apiaceae.

Zeuxia subapennina Rondani, 1862

Submontane: E. of l'Argentière, 25.VII.1964 (He), 4.VII.1992 (Ts). – 1000–1100 m.

Swept from low vegetation.

Eriothrix apenninus (Rondani, 1862)

Montane: Granon, 3.VIII.1983 (Ts, 7); Briançon, 26.VII.1964 (He); S. of Col de la Pousterle, 9.VIII.1998 (Ts); Vallouise, 25.VII.1964 (He); Fressinières, 13.VII.1976 (He). – Submontane: E. of l'Argentière, 25.VII.1964 (He, 2), 4.VII.1992 (Ts, 2; Zi), 27.VII.1992 (ZiLa, 2); Guillestre, 31.VII.1985 (Ts). – 900–1700 m (usually below 1300 m).

On flowers (*Mentha*, *Thymus*, *Seseli*).

Eriothrix monticola (Egger, 1856)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (ZiLa), 23.VII.1996 (ZiLa, 2), 14.VII.1997 (ZiLa, 2); Pré de Mme Carle, 10.VIII.1998 (Ts). – Montane: Combe de Malaval, 8.VII.1976 (He); Queyrières, 2.VII.1982 (Ts, 8); Ailefroide, 21.VII.1996 (ZiLa, 3); Brunissard, 14.VII.1976 (He). – 1200–1950 m.

Sitting on rocks or stones, usually near brooks. Few specimens were collected from flowers of *Thymus*, *Sedum* or *Laserpitium*. – Recorded as *Rhynchista monticola* by RINGDAHL (1957: 121) from La Grave.

Eriothrix prolixa (Meigen, 1824)

Subalpine: Pré de Mme Carle, 8.VIII.1997 (Ts), 8.VIII.1998 (Ts, 2), 10.VIII.1998 (Ts). – Montane: Vallouise, 25.VII.1964 (He); Brunissard, 4.VIII.1983 (Ts, 2), 7.VII.1991 (Ts). – Submontane: Guillestre, 31.VII.1985 (Ts, 7). – 900–1850 m.

On flowers (*Laserpitium*, *Thymus*, *Mentha*).

Eriothrix rufomaculatus (Degeer, 1776)

Subalpine: Les Têtes, 5.VIII.1998 (Ts, 3; ZiLa, 9). – Montane: Granon, 3.VIII.1983 (Ts, 16); Les Alberts, 28.VIII.1976 (He); N. of Ailefroide, 1.VIII.1983 (Ts, 12), 5.VIII.1983 (Ts, 5), 21.VII.1996 (ZiLa); Entre-les-Aigues, 6.VIII.1997 (Ts, 7), 13.VIII.1998 (Ts, 100); Col de la Pousterle, 2.VIII.1998 (ZiLa, 4), 5.VIII.1998 (ZiLa, 3); S. of Col de la Pousterle, 4.VIII.1998 (Ts), 9.VIII.1998 (Ts, 4); Vallouise, 25.VII.1964 (He); Brunissard, 4.VIII.1983 (Ts, 6), 28.VII.1992 (ZiLa, 5); Forêt de Boscodon, 26.V.2002 (Ts). – Submontane: S. of l'Argentière, 30.VIII.1976 (He, 3); Crots, 3.VIII.1998 (Ts, 14). – 800–2050 m.

Common species on flowers (*Achillea*, *Seseli*, *Daucus*, *Laserpitium*); one specimen in a yellow pan trap.

Campylocheta inepta (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 9.VII.1975 (He, 2), 15.VII.1976 (He). – Montane: Montgenèvre, 12.VII.1990 (BARTÁK); Brunissard, 31.VII.1985 (Ts, 3), 28.VII.1992 (ZiLa). – Submontane: NW. of St-Crépin, 17.VI.1983 (Ts, 2). – 920–1900 m.

Swept from flowers (*Laserpitium*). – Recorded from St-Crépin as a parasitoid of *Tephronia codetaria* Oberthuer (Geometridae) by CLEU (1957: 15) [as *Frivaldszkia distincta* Meigen], see also OILB-list 2.

Peteina erinaceus (Fabricius, 1794)

Subalpine: E. of Col du Lautaret, 9.VII.1975 (He), 29.VII.1992 (Ts; ZiLa, 2), 23.VII.1996 (ZiLa), 14.VII.1997 (ZiLa, 3); Pré de Mme Carle, 8.VIII.1997 (Ts, 6), 10.VIII.1997 (Ts), 8.VIII.1998 (Ts, 3), 10.VIII.1998 (Ts, 3). – Montane: La Grave, 22.VII.1964 (He); Le Lauzet, 31.VII.1992 (Ts, 3), 2.VIII.1992 (Ts, 14); N. of Ailefroide, 1.VIII.1983 (Ts, 2), 5.VIII.1983 (Ts, 3), 21.VII.1996 (ZiLa), 10.VIII.1997 (Ts). – 1500–1950 m.

On flowers (*Laserpitium*, *Peucedanum*, *Achillea*) or swept from low vegetation. – Recorded from La Grave by RINGDAHL (1957: 121).

Ramonda cleui Herting, 1980

Alpine: Crête du Rocher Blanc, 6.VIII.1998 (Ts). – Montane: Entre-les-Aigues, 13.VIII.1998 (Ts). – 1600–2500 m.

A male was collected while it was sitting on the net. Another female specimen was swept from meadows with flowering *Seseli*. – Only the two male type specimens from the Col du Télégraphe (Savoie) were known before. *R. cleui* is as a parasitoid of *Thera juniperata* Linnaeus (Geometridae).

Ramonda delphinensis (Villeneuve, 1922)

Alpine: Prorel, 27.VII.1992 (ZiLa, 2). – Subalpine: E. of Col du Lautaret, 9.VII.1975 (He, 2), 29.VII.1992 (Ts), 30.VII.1992 (Ts, 5), 31.VII.1992 (Ts, 8), 2.VIII.1992 (Ts, 2). – Montane: Montgenèvre, 12.VII.1990 (BARTÁK, 2); N. of Ailefroide, 29.VII.1985 (Ts); Brunissard, 11.VII.1991 (Ts), 26.VII.1996 (ZiLa). – 1600–2400 m.

On flowers of *Laserpitium*, on stones, or swept from low vegetation. – Described by VILLENEUVE (1922: 515) as *Wagneria delphinensis* from La Grave (July).

Ramonda jugorum (Villeneuve, 1928)

Alpine: Prorel, 27.VII.1992 (ZiLa). – 2400 m.

Collected from stones. – A rare species, described by VILLENEUVE (1928: 51) as *Wagneria jugorum* from the Galibier (early August). The elevation is given in the description as 2000 m, which would be more suitable however for the Lautaret.

Ramonda plorans (Rondani, 1861)

Montane: Forêt de Boscodon, 26.V.2002 (Ts). – 1200 m.

In yellow pan traps.

Ramonda prunaria (Rondani, 1861)

Subalpine: E. of Col du Lautaret, 30.VII.1992 (Ts). – Montane: Col de l'Echelle, 11.VII.1976 (He), 2.VIII.1983 (Ts); Les Alberts, 6.VII.1975 (He), 9.VII.1976 (He), 11.VII.1976 (He), 28.VIII.1976 (He, 3); N. of Ailefroide, 16.VI.1983 (Ts, 9), 17.VI.1983 (Ts, 5), 1.VIII.1983 (Ts, 3); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 2); Fressinières, 13.VII.1976 (He); Brunissard, 4.VIII.1983 (Ts, 14), 31.VII.1985 (Ts, 2); Forêt de Boscodon, 20.V.2002 (Ts). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts); SE. of St-Crépin, 4.VIII.1998 (ZiLa). – 920–1950 m.

On flowers or swept from low vegetation. – Recorded as *Wagneria carbonaria* Meig. from the Lautaret by RINGDAHL (1957: 122), and from Briançon as a parasitoid of *Mythimna* sp. (Noctuidae) by FORD et al. (2000: 26).

Ramonda prunicia (Herting, 1969)

Montane: Forêt de Boscodon, 26.V.2002 (Ts). – 1200 m.

In yellow pan traps.

Ramonda spathulata (Fallén, 1820)

Alpine: Prorel, 27.VII.1992 (ZiLa). – Montane: N. of Ailefroide, 17.VI.1983 (Ts); Brunissard, 28.VII.1992 (ZiLa); Forêt de Boscodon, 26.V.2002 (Ts); Bois de Faye, 30.V.2002 (Ts); Chabre, 21.V.2002 (Ts). – 1100–2570 m.

In yellow pan traps, on flowers (*Laserpitium*) or swept from low vegetation; a single specimen sitting on stones on a mountain peak.

Periscepsia handlirschi (Brauer et Bergenstamm, 1891)

Alpine: Prorel, 27.VII.1992 (ZiLa). – 2570 m.

On stones on the mountain peak.

Wagneria alpina Villeneuve, 1910

Alpine: Galibier, 6.VII.1992 (Ts, 14; Zi, 6), 29.VII.1992 (Ts, 10), 16.VII.1997 (ZiLa); Prorel, 6.VIII.1998 (ZiLa, 8). – Subalpine: E. of Col du Lautaret, 15.VII.1976 (He), 29.VII.1992 (Ts); Pré de Mme Carle, 8.VIII.1997 (Ts, 2); Les Têtes, 5.VIII.1998 (Ts, 9; ZiLa, 10). – Montane: N. of Ailefroide, 30.VI.1982 (Ts, 2), 16.VI.1983 (Ts), 17.VI.1983 (Ts), 5.VIII.1983 (Ts); Col de la Pousterle, 5.VIII.1998 (ZiLa, 4); Brunissard, 4.VIII.1983 (Ts), 4.VIII.1997 (Ts, 6). – 1600–2570 m.

Sitting or running on large stones and rocks, rarely visiting flowers (*Euphorbia*, *Laserpitium*, *Alchemilla*). – An arcto-alpine species, which was described by Villeneuve (1910: 87) as a common species from the Lautaret (July 1908). Recorded from the same locality by Ringdahl (1957: 122).

Wagneria costata (Fallén, 1815)

Submontane: Barret, 25.V.2002 (Ts). – 650 m.

On flowers of *Laserpitium*.

Athrycia impressa (Wulp, 1869)

Alpine: Prorel, 27.VII.1992 (ZiLa). – Subalpine: E. of Col du Lautaret, 9.VII.1975 (He), 8.VII.1976 (He), 29.VII.1992 (Ts, 2), 30.VII.1992 (Ts), 31.VII.1992 (Ts, 3), 2.VIII.1992 (Ts); Pré de Mme Carle, 8.VIII.1998 (Ts, 2), 10.VIII.1998 (Ts, 2). – Montane: Le Lauzet, 2.VIII.1992 (Ts); Sarserra, 25.VII.1996 (ZiLa, 2); Les Alberts, 6.VII.1975 (He, 3), 8.VII.1975 (He, 4), 1.VIII.1985 (Ts, 2); Briançon, 6.VII.1975 (He); N. of Ailefroide, 29.VII.1985 (Ts), 21.VII.1996 (ZiLa); S. of Col de la Pousterle, 9.VIII.1998 (Ts); Vallouise, 7.VII.1975 (He, 2), 11.VII.1975 (He, 2), 10.VII.1976 (He); Brunissard, 11.VII.1991 (Ts), 28.VII.1992 (ZiLa); Forêt de Boscodon, 1.VII.1997 (ZiLa). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts); St-Clément, 18.VI.1981 (Ts); Upaix, 21.V.2002 (Ts). – 740–2570 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*, *Seseli*), one specimen on a moutain peak on stones. – The record of *Voria trepida* from the Lautaret by Ringdahl (1957: 122) probably refers to this species.

Athrycia trepida (Meigen, 1824)

Montane: Fournel, 26.V.2002 (Ts); Forêt de Boscodon, 20.V.2002 (Ts), 26.V.2002 (Ts, 3). – Submontane: Rourebeau, 28.V.2002 (Ts). – 510–1400 m.

In yellow pan traps.

Voria ruralis (Fallén, 1810)

Montane: Col de l'Echelle, 2.VIII.1983 (Ts); Sarserra, 25.VII.1996 (ZiLa); Queyrières, 2.VII.1982 (Ts); N. of Ailefroide, 2.VIII.1985 (Ts, 2); Entre-les-Aigues, 13.VIII.1998 (Ts); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 2); Les Mensals, 11.VIII.1998 (Ts). – Submontane: Crots, 3.VIII.1998 (Ts); Ventavon, 25.V.2002 (Ts). – 640–1700 m.

On flowers of Apiaceae (*Laserpitium*, *Seseli*, *Daucus*, *Angelica*), one specimen in a yellow pan trap.

Cyrtophleba ruricola (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (Ts, 5), 30.VII.1992 (Ts, 2), 31.VII.1992 (Ts, 3), 2.VIII.1992 (Ts, 2). – Montane: Le Lauzet, 2.VIII.1992 (Ts); Col de l'Echelle, 2.VIII.1983 (Ts, 2), 1.VIII.1985 (Ts, 2); Prelles, 16.VI.1983 (Ts); N. of Ailefroide, 29.VII.1985 (Ts, 3); Ailefroide, 7.VII.1975 (He); Fournel, 26.V.2002 (Ts, 5); Brunissard, 11.VII.1991 (Ts); Forêt de Boscodon, 16.V.1999 (ZiLa, 3), 20.V.2002 (Ts, 37), 26.V.2002 (Ts, 59); Bois de Faye, 29.V.2002 (Ts); Chabre, 21.V.2002 (Ts). – Submontane: NW. of St-Crépin, 26.V.2002 (Ts); St-Clément, 18.VI.1981 (Ts); Prunières, 1.VII.1997 (ZiLa); Vallée de Boscodon, 16.V.1999 (ZiLa, 4). – 850–1950 m.

In yellow pan traps, on flowers of *Laserpitium*, on the ground or swept from low vegetation. – Recorded from the Lautaret by Ringdahl (1957: 122).

Klugia marginata (Meigen, 1824)

Montane: Brunissard, 5.VII.1992 (Ts). – Submontane: Upaix, 27.V.2002 (Ts). – 740–1850 m.

Swept from flowers or in yellow pan traps.

Chaetovoria antennata (Villeneuve, 1920)

Alpine: Galibier, 24.VII.1964 (He, 3); La Gardiole, 31.VII.1992 (Ts), 3.VIII.1997 (Ts); Prorel, 12.VII.1991 (Ts), 6.VIII.1998 (ZiLa, 8); Crête du Rocher Blanc, 9.VIII.1997 (Ts, 2). – Subalpine: E. of Col du Lautaret, 14.VII.1997 (ZiLa). – 1950–2750 m.

Usually on or near mountain peaks sitting on stones or on low vegetation. Several specimens were collected from flowers (*Cerastium*, *Alchemilla*, *Gypsophila*). – A rare arcto-alpine species, which was described by Villeneuve (1920: 118) from the Galibier (2300 m).

Phyllomya volvulus (Fabricius, 1794)

Alpine: NW. of Col du Lautaret, 7.VIII.1998 (ZiLa). – Subalpine: E. of Col du Lautaret, 9.VII.1975 (He). – Montane: Le Lauzet, 25.VII.1995 (Ts); Entre-les-Aigues, 13.VIII.1998 (Ts, 2); Forêt de Boscodon, 1.VII.1997 (ZiLa, 2), 20.V.2002 (Ts), 26.V.2002 (Ts, 2). – 1200–2190 m.

Flying through low vegetation, visiting flowers (*Seseli*, *Heracleum*), or in yellow pan traps.

Thelaira ?nigripes (Fabricius, 1794)

Montane: Briançon, 6.VI.1997 (Schmid-Egger, 3); Forêt de Boscodon, 1.VII.1997 (ZiLa, 7), 20.V.2002 (Ts, 2), 26.V.2002 (Ts, 14). – Submontane: S. of l'Argentière, 17.VI.1981 (Ts); Le Poët, 29.V.2002 (Ts). – 650–1200 m.

In yellow pan traps, on flowers of *Laserpitium* or on leaves. - C. Bergström (Uppsala) recently saw this material and noted (pers. comm.) that it could belong to a species that differs from the typical *T. nigripes*.

Stomina caliendrata (Rondani, 1862)

Submontane: E. of l'Argentière, 4.VII.1992 (Zi). – 1000 m.

On flowers of *Laserpitium*.

Stomina iners (Meigen, 1838)

Alpine: Prorel, 30.VII.1992 (Ts). – Montane: Granon, 3.VIII.1983 (Ts, 2); La Vachette, 26.VII.1964 (He); Briançon, 26.VII.1964 (He), 9.VII.1976 (He); Roche Baron, 28.VII.1992 (ZiLa, 16); Prelles, 2.VIII.1985 (Ts). – Submontane: E. of l'Argentière, 25.VII.1964 (He), 4.VII.1992 (Ts, 3); NW. of St-Crépin, 5.VII.1992 (Zi); S. of St-Crépin, 5.VII.1992 (Ts, 2); Mont Dauphin, 5.VII.1992 (Ts, 5; Zi, 2). – 900–2570 m (usually below 1700 m).

Swept from flowers (*Laserpitium*, *Mentha*, *Thymus*, *Senecio*), or sitting on the ground or stones. One male was collected while it was sitting on stones on a mountain peak.

Stomina tachinoides (Fallén, 1817)

Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts). – 920–950 m.

Swept from meadows with flowering *Daucus* and *Eryngium*.

Rhamphina pedemontana (Meigen, 1824)

Alpine: La Gardiole, 7.VIII.1998 (Ts); Crête des Prés des Bancs, 12.VIII.1997 (Ts, 11). – Subalpine: Pré de Mme Carle, 8.VIII.1997 (Ts, 3), 10.VIII.1997 (Ts, 7), 8.VIII.1998 (Ts, 11), 10.VIII.1998 (Ts, 8). – Montane: Bois de Faye, 30.V.2002 (Ts). – 1100–2700 m.

Usually on flowers of *Thymus*, occasionally sitting on the ground or on stones, or in yellow pan traps.

Dufouria chalybeata (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (ZiLa), 31.VII.1992 (Ts), 2.VIII.1992 (Ts). – Montane: Col de l'Echelle, 11.VII.1976 (He); Le Laus, 14.VII.1976 (He); Brunissard, 14.VII.1976 (He), 28.VII.1992 (ZiLa). – 1700–1950 m.

On flowers of *Laserpitium*.

Dufouria nigrita (Fallén, 1810)

Subalpine: E. of Col du Lautaret, 20.VII.1996 (ZiLa). – Montane: Le Monêtier-les-Bains, 22.VII.1964 (He). – 1450–1950 m.

Swept from low vegetation.

Rondania dimidiata (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 15.VII.1976 (He). – Montane: N. of Ailefroide, 3.VIII.1983 (Ts); Brunissard, 31.VII.1985 (Ts, 8). – 1600–1950 m.

Swept from flowers of *Laserpitium*. – Recorded from the Lautaret by Villeneuve (1909: 338) (as *Rondania dispar* var. *alpina*, collected VII.1908) and Ringdahl (1957: 121).

Rondania fasciata (Macquart, 1834)

Montane: Le Lauzet, 23.VII.1996 (ZiLa); Brunissard, 4.VIII.1983 (Ts, 2), 31.VII.1985 (Ts, 9), 11.VII.1991 (Ts). – 1800–1850 m.

Swept from flowers of *Laserpitium*.

Pandelleia sexpunctata (Pandellé, 1896)

Described by Villeneuve (1919: 353) as *P. alpicola* from La Grave (July, 1 female).

4.5 Subfamily Phasiinae

Eliozeta helluo (Fabricius, 1805)

Submontane: Barret, 19.V.2002 (Ts). – 650 m.

On flowers of Laserpitium.

Eliozeta pellucens (Fallén, 1820)

Subalpine: Les Têtes, 5.VIII.1998 (ZiLa). – Montane: Brunissard, 4.VIII.1983 (Ts, 2). – 1850–2050 m.

Swept from flowers (*Achillea*).

Clytiomya continua (Panzer, 1798)

Subalpine: E. of Col du Lautaret, 7.VIII.1998 (ZiLa). – Montane: Entre-les-Aigues, 6.VIII.1997 (Ts, 2), 13.VIII.1998 (Ts, 8). – 1600–1950 m.

Swept from flowers of *Seseli* or *Achillea*.

Clytiomya sola (Rondani, 1861)

Montane: Col de l'Echelle, 2.VIII.1983 (Ts); N. of Ailefroide, 30.VI.1982 (Ts); Combe du Queyras, 23.VII.1964 (He). – Submontane: La Bâtie, 23.VII.1996 (ZiLa); E. of l'Argentière, 25.VII.1964 (He); S. of l'Argentière, 30.VIII.1976 (He); NW. of St-Crépin, 4.VIII.1998 (Ts, 8; ZiLa, 2); W. of Mont Dauphin, 14.VIII.1998 (Ts); Mont Dauphin, 24.VII.1996 (ZiLa), 28.VII.1996 (ZiLa, 3), 3.VIII.1998 (ZiLa); Espinasses, 28.V.2002 (Ts, 5); Barret, 25.V.2002 (Ts, 3). – 650–1700 m.

Swept from flowers (*Laserpitium*, *Daucus*, *Pastinaca*, *Anthemis*, *Achillea*).

Ectophasia crassipennis (Fabricius, 1794)

Montane: Vallouise, 25.VII.1964 (He); Les Mensals, 7.VIII.1997 (Ts), 11.VIII.1998 (Ts, 3). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts, 2); Mont Dauphin, 5.VII.1992 (Ts, 2), 24.VII.1996 (ZiLa), 28.VII.1996 (ZiLa); Gap, 11.VII.1990 (Bartàk, 2); Rourebeau, 28.V.2002 (Ts). – 510–1400 m.

On flowers (*Laserpitium*, *Daucus*, *Mentha*, *Achillea*), only occasionally on leaves.

Ectophasia leucoptera (Rondani, 1865)

Submontane: Gap, 11.VII.1990 (Bartàk). – 700 m.

Recorded from the Gorges de la Méouge by Dupuis (1952: 335).

Ectophasia oblonga (Robineau-Desvoidy, 1830)

Montane: Briançon, 26.VII.1964 (He). – Submontane: NW. of St-Crépin, 17.VI.1983 (Ts), 4.VIII.1998 (ZiLa); S. of St-Crépin, 5.VII.1992 (Ts); Mont Dauphin, 5.VII.1992 (Ts, 2; Zi); Upaix, 19.V.2002, 25.V.2002 (Ts, 2); Barret, 25.V.2002 (Ts, 2). – 650–1250 m.

Swept from flowers (*Euphorbia*, *Laserpitium*, *Daucus*).

Subclytia rotundiventris (Fallén, 1820)

Montane: Les Mensals, 11.VIII.1998 (Ts). – 1400 m.

On flowers of *Angelica*.

Gymnosoma clavatum (Rohdendorf, 1947)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (ZiLa). – Montane: Névache, 2.VIII.1983 (Ts); Les Alberts, 12.VII.1975 (He); Briançon, 26.VII.1964 (He); Queyrières, 2.VII.1982 (Ts, 2); Les Chapins, 14.VIII.1998 (Ts); N. of Ailefroide, 1.VIII.1983 (Ts), 5.VIII.1983 (Ts); S. of Col de la Pousterle, 4.VIII.1998 (Ts, 2), 9.VIII.1998 (Ts); Brunissard, 4.VIII.1983 (Ts, 3), 31.VII.1985 (Ts), 5.VII.1992 (Ts, 2); Montagne de St-Genis, 30.V.2002 (Ts). – Submontane:

E. of l'Argentière, 25.VII.1964 (He, 2); S. of l'Argentière, 30.VIII.1976 (He, 7); La Roche-de-Rame, 30.VI.1982 (Ts); NW. of St-Crépin, 4.VIII.1998 (Ts, 2; ZiLa); SE. of St-Crépin, 4.VIII.1998 (ZiLa, 3); Mont Dauphin, 11.VII.1990 (BARTÁK), 5.VII.1992 (Ts); St-Clément, 18.VI.1981 (Ts); Prunières, 3.VIII.1998 (ZiLa); Gap, 11.VII.1990 (BARTÁK); Upaix, 25.V.2002 (Ts). – 700–1950 m.

On flowers (*Laserpitium*, *Eryngium*, *Seseli*, *Daucus*).

Gymnosoma dolycoridis Dupuis, 1961

Montane: Col de l'Echelle, 1.VIII.1985 (Ts); Sarserra, 25.VII.1996 (ZiLa). – Submontane: NW. of St-Crépin, 4.VIII.1998 (ZiLa); SE. of St-Crépin, 4.VIII.1998 (ZiLa); Mont Dauphin, 5.VII.1992 (Ts; Zi), 28.VII.1996 (ZiLa, 3), 13.VII.1997 (ZiLa, 2). – 900–1700 m.

On flowers (*Laserpitium*, *Daucus*).

Gymnosoma nitens Meigen, 1824

Montane: La Grave, 22.VII.1964 (He); Les Alberts, 6.VII.1975 (He), 9.VII.1976 (He), 16.VII.1976 (He, 2); Briançon, 26.VII.1964 (He); Entre-les-Aigues, 13.VIII.1998 (Ts, 3); Col de la Pousterle, 5.VIII.1998 (ZiLa); S. of Col de la Pousterle, 9.VIII.1998 (Ts), 26.V.2002 (Ts, 2); Fressinières, 13.VII.1976 (He); Brunissard, 4.VIII.1983 (Ts, 4), 31.VII.1985 (Ts, 5), 7.VII.1991 (Ts), 5.VII.1992 (Ts, 2; Zi, 2), 26.VII.1996 (ZiLa). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts, 8); NW. of St-Crépin, 4.VIII.1998 (Ts, 7; ZiLa, 7); SE. of St-Crépin, 4.VIII.1998 (ZiLa); Mont Dauphin, 11.VII.1990 (BARTÁK), 5.VII.1992 (Zi), 28.VII.1996 (ZiLa, 4); Espinasses, 28.V.2002 (Ts); Upaix, 25.V.2002 (Ts). – 700–1850 m.

Swept from flowers (*Laserpitium*, *Seseli*, *Daucus*, *Achillea*, *Euphorbia*).

Gymnosoma nudifrons Herting, 1966

Subalpine: Les Têtes, 5.VIII.1998 (Ts). – Montane: La Grave, 22.VII.1964 (He); Col de l'Echelle, 1.VIII.1985 (Ts); Les Chapins, 14.VIII.1998 (Ts, 7); N. of Ailefroide, 29.VII.1985 (Ts), 21.VII.1996 (ZiLa); S. of Col de la Pousterle, 9.VIII.1998 (Ts), 26.V.2002 (Ts); Vallouise, 5.VII.1975 (He); Brunissard, 4.VIII.1983 (Ts); Forêt de Boscodon, 1.VII.1997 (ZiLa, 2). – Submontane: S. of l'Argentière, 14.VIII.1998 (Ts); Le Gouffre de Gourfouran, 14.VIII.1998 (Ts, 2); SE. of St-Crépin, 4.VIII.1998 (ZiLa); Mont Dauphin, 5.VII.1992 (Zi), 24.VII.1996 (ZiLa, 2), 28.VII.1996 (ZiLa), 13.VII.1997 (ZiLa, 2); St-Clément, 18.VI.1981 (Ts). – 880–2050 m.

On flowers (*Achillea*, *Eryngium*, *Laserpitium*, *Seseli*, *Pastinaca*, *Daucus*, *Mentha*, *Euphorbia*).

Gymnosoma rotundatum (Linnaeus, 1758)

Montane: Sarserra, 25.VII.1996 (ZiLa); Les Chapins, 14.VIII.1998 (Ts); S. of Col de la Pousterle, 9.VIII.1998 (Ts); Les Mensals, 11.VIII.1998 (Ts, 24); Vallée de Rabious, 3.VIII.1998 (ZiLa, 3); Forêt de Boscodon, 1.VII.1997 (ZiLa, 5). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts, 2); SE. of St-Crépin, 4.VIII.1998 (ZiLa, 4); Mont Dauphin, 24.VII.1996 (ZiLa), 28.VII.1996 (ZiLa, 13), 2.VII.1997 (ZiLa), 13.VII.1997 (ZiLa, 7); Crots, 3.VIII.1998 (Ts). – 800–1600 m.

On flowers (*Laserpitium*, *Eryngium*, *Angelica*, *Daucus*, *Seseli*, *Mentha*).

Gymnosoma rungsi (Mesnil, 1952)

Submontane: E. of l'Argentière, 23.VII.1964 (He). – 1000–1100 m.

Cistogaster globosa (Fabricius, 1775)

Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts, 8; ZiLa, 6); SE. of St-Crépin, 4.VIII.1998 (ZiLa, 2); S. of St-Crépin, 5.VII.1992 (Ts); Mont Dauphin, 24.VII.1996 (ZiLa), 28.VII.1996 (ZiLa, 2); Prunières, 1.VII.1997 (ZiLa), 3.VIII.1998 (ZiLa). – 850–1030 m.

Swept from meadows with flowers (*Laserpitium*, *Daucus*).

Elomya lateralis (Meigen, 1824)

Submontane: Le Gouffre de Gourfouran, 6.VI.1997 (SCHMID-EGGER); NW. of St-Crépin, 17.VI.1983 (Ts). – 920–950 m.

Swept from low vegetation.

Phasia aurulans Meigen, 1824

Montane: Les Mensals, 11.VIII.1998 (Ts, 3). – 1400 m.

On flowers of *Mentha*.

Phasia barbifrons (Girschner, 1887)

Montane: Vallouise, 11.VII.1975 (He). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts); Crots, 3.VIII.1998 (Ts). – 800–1200 m.

Swept from meadows with flowering *Daucus*, *Eryngium*, *Pastinaca*, and *Achillea*.

Phasia hemiptera (Fabricius, 1794)

Subalpine: Les Têtes, 5.VIII.1998 (Ts). – Montane: Puy-St-Vincent, 9.VIII.1998 (Ts); Vallée de Rabious, 3.VIII.1998 (ZiLa). – Submontane: Crots, 3.VIII.1998 (Ts). – 800–2050 m.

On flowers of *Achillea* and *Daucus*.

Phasia mesnili (Draber-Monko, 1965)

Submontane: Upaix, 27.V.2002 (Ts). – 740 m.

Swept from a meadow with flowering *Euphorbia*.

Phasia obesa (Fabricius, 1798)

Subalpine: Les Têtes, 15.VIII.1997 (Ts, 3), 2.VIII.1998 (Ts), 5.VIII.1998 (Ts, 5; ZiLa, 8). – Montane: Les Alberts, 28.VIII.1976 (He); N. of Ailefroide, 5.VIII.1983 (Ts); Entre-les-Aigues, 6.VIII.1997 (Ts), 13.VIII.1998 (Ts); Col de la Pousterle, 2.VIII.1998 (ZiLa); S. of Col de la Pousterle, 4.VIII.1998 (Ts), 9.VIII.1998 (Ts, 10); Les Mensals, 11.VIII.1998 (Ts, 2); Brunissard, 14.VII.1976 (He), 31.VII.1985 (Ts), 7.VII.1991 (Ts, 3), 11.VII.1991 (Ts, 6), 5.VII.1992 (Ts, 2; Zi), 28.VII.1992 (ZiLa, 5); Vallée de Rabious, 3.VIII.1998 (ZiLa, 3). – Submontane: S. of l'Argentière, 10.VIII.1997 (Ts); NW. of St-Crépin, 4.VIII.1998 (Ts, 6); SE. of St-Crépin, 4.VIII.1998 (Ts; ZiLa, 9); W. of Mont Dauphin, 14.VIII.1998 (Ts); Mont Dauphin, 5.VII.1992 (Ts, 2), 28.VII.1996 (ZiLa), 13.VII.1997 (ZiLa); Crots, 3.VIII.1998 (Ts, 18); Gap, 11.VII.1990 (BARTÁK). – 700–2050 m.

Common species on flowers (Apiaceae, *Achillea*).

Phasia pandellei (Dupuis, 1957)

Submontane: Upaix, 25.V.2002 (Ts). – 740 m.

Swept from a meadow with flowering *Euphorbia*.

Phasia pusilla Meigen, 1824

Subalpine: Les Têtes, 5.VIII.1998 (Ts, 2; ZiLa, 2). – Montane: Sarserra, 25.VII.1996 (ZiLa); Les Alberts, 11.VII.1976 (He, 2), 16.VII.1976 (He); La Vachette, 26.VII.1964 (He); Queyrières, 8.VII.1991 (Ts); S. of Col de la Pousterle, 9.VIII.1998 (Ts, 4); Vallouise, 30.VI.1982 (Ts); Brunissard, 5.VII.1992 (Ts), 28.VII.1992 (ZiLa). – Submontane: E. of l'Argentière, 12.VII.1976 (He, 3), 4.VII.1992 (Ts, 2; Zi); S. of l'Argentière, 10.VIII.1997 (Ts, 2); NW. of St-Crépin, 17.VI.1983 (Ts, 10); SE. of St-Crépin, 4.VIII.1998 (Ts; ZiLa, 2); S. of St-Crépin, 5.VII.1992 (Ts, 6); Mont Dauphin, 5.VII.1992 (Ts; Zi), 2.VII.1997 (ZiLa); Guillestre, 31.VII.1985 (Ts, 2); St-Clément, 18.VI.1981 (Ts); Crots, 3.VIII.1998 (Ts, 2); Espinasses, 28.V.2002 (Ts, 2); Col de Faye, 29.V.2002 (Ts); Upaix, 25.V.2002 (Ts, 4), 27.V.2002 (Ts); Le Poët, 29.V.2002 (Ts, 3); Barret, 25.V.2002 (Ts). – 650–2050 m (usually below 1400 m).

On flowers (*Laserpitium*, *Daucus*, *Achillea*) or swept from low vegetation.

Phasia subcoleoptrata (Linnaeus, 1767)

Submontane: Upaix, 25.V.2002 (Ts). – 740 m.

Swept from a meadow with flowering *Euphorbia*.

Catharosia pygmaea (Fallén, 1815)

Subalpine: E. of Col du Lautaret, 15.VII.1976 (He), 31.VII.1983 (Ts, 2). – Montane: Col de l'Echelle, 1.VIII.1985 (Ts, 2); Briançon, 5.VII.1975 (He); N. of Ailefroide, 16.VI.1983 (Ts, 17), 17.VI.1983 (Ts, 47), 1.VIII.1983 (Ts, 7); Brunissard, 4.VIII.1983 (Ts, 2), 31.VII.1985 (Ts, 13), 10.VII.1991 (Ts), 11.VII.1991 (Ts), 26.VII.1996 (ZiLa); Chabre, 24.V.2002 (Ts). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts). – 920–2000 m.

Sitting or running on stones or visiting flowers (*Laserpitium*, *Heracleum*, *Daucus*).

Dionaea aurifrons (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (ZiLa); Pré de Mme Carle, 10.VIII.1998 (Ts). – Montane: N. of Ailefroide, 2.VIII.1985 (Ts). – Submontane: St-Clément, 18.VI.1981 (Ts, 4). – 880–1950 m.

Swept from flowers (*Laserpitium* and others).

Dionaea magnifrons Herting, 1977

Subalpine: E. of Col du Lautaret, 15.VII.1976 (He), 29.VII.1992 (Ts), 2.VIII.1992 (Ts). – 1800–1900 m.

On flowers of *Laserpitium*.

Eulabidogaster setifacies (Rondani, 1861)

Montane: Les Alberts, 9.VII.1976 (He, 4), 11.VII.1976 (He), 16.VII.1976 (He); Queyrières, 30.VI.1982 (Ts); Entre-les-Aigues, 13.VIII.1998 (Ts); Les Mensals, 11.VIII.1998 (Ts); Brunissard, 4.VIII.1983 (Ts), 31.VII.1985 (Ts); Combe du Queyras, 23.VII.1964 (He, 2). – Submontane: Mont Dauphin, 5.VII.1992 (Ts); Crots, 3.VIII.1998 (Ts, 2). – 800–1850 m.

Swept from flowers (*Laserpitium*, *Seseli*, *Daucus*).

Leucostoma anthracinum (Meigen, 1824)

Subalpine: Pré de Mme Carle, 8.VIII.1997 (Ts). – Montane: La Vachette, 26.VII.1964 (He); Entre-les-Aigues, 13.VIII.1998 (Ts, 2); S. of Col de la Pousterle, 4.VIII.1998 (Ts, 2), 9.VIII.1998 (Ts, 2); Vallouise, 11.VII.1975 (He, 3), 30.VI.1982 (Ts, 2); Les Mensals, 7.VIII.1997 (Ts); Brunissard, 31.VII.1985 (Ts), 28.VII.1992 (ZiLa); Combe du Queyras, 23.VII.1964 (He). – Submontane: St-Clément, 18.VI.1981 (Ts). – 880–1900 m.

Swept from flowers (*Laserpitium* and others).

Leucostoma crassum Kugler, 1966

Montane: Entre-les-Aigues, 13.VIII.1998 (Ts, 3). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts, 2); NW. of St-Crépin, 17.VI.1983 (Ts). – 920–1600 m.

Swept from flowers and grass.

Leucostoma meridianum (Rondani, 1868)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (ZiLa); Les Têtes, 5.VIII.1998 (ZiLa). – Montane: Fressinières, 13.VII.1976 (He). – Submontane: Crots, 3.VIII.1998 (Ts). – 800–2050 m.

Swept from meadows with flowering *Laserpitium*, *Daucus*, *Pastinaca*, and *Achillea*.

Leucostoma simplex (Fallén, 1815)

Montane: S. of Col de la Pousterle, 9.VIII.1998 (Ts); Vallouise, 11.VII.1975 (He, 3), 30.VI.1982 (Ts). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts, 3); NW. of St-Crépin, 4.VIII.1998 (ZiLa); SE. of St-Crépin, 4.VIII.1998 (Ts; ZiLa); Mont Dauphin, 5.VII.1992 (Ts; Zi, 2); St-Clément, 18.VI.1981 (Ts, 6); Upaix, 25.V.2002 (Ts). – 740–1600 m.

Swept from flowers (*Laserpitium*, *Daucus* and others) and grass.

Leucostoma turonicum Dupuis, 1964

Montane: Chabre, 19.V.2002 (Ts), 21.V.2002 (Ts). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts); Mont Dauphin, 5.VII.1992 (Zi), 28.VII.1996 (ZiLa, 3); Upaix, 25.V.2002 (Ts). – 740–1350 m.

On flowers (*Laserpitium*, *Achillea*), swept from meadows, or on a hilltop near the ground.

Clairvillia biguttata (Meigen, 1824)

Alpine: Glacier Noir, 10.VIII.1998 (Ts); Glacier Blanc, 12.VIII.1998 (Ts, 2). – Subalpine: E. of Col du Lautaret, 8.VII.1976 (He), 29.VII.1992 (ZiLa); Pré de Mme Carle, 8.VIII.1997 (Ts, 2). – Montane: Sarserra, 25.VII.1996 (ZiLa, 2); Les Alberts, 9.VII.1976 (He), 16.VII.1976 (He); N. of Ailefroide, 1.VIII.1983 (Ts, 10), 5.VIII.1983 (Ts, 4), 10.VIII.1997 (Ts); S. of Col de la Pousterle, 4.VIII.1998 (Ts); Les Mensals, 11.VIII.1998 (Ts); Brunissard, 4.VIII.1983 (Ts, 3), 31.VII.1985 (Ts), 10.VII.1991 (Ts), 26.VII.1996 (ZiLa). – Submontane: E. of l'Argentière, 25.VII.1964 (He); Prunières, 1.VII.1997 (ZiLa, 3). – 850–2350 m.

On flowers of Apiaceae (*Laserpitium*, *Peucedanum*, *Seseli*, *Angelica*) or *Thymus*.

Labigastera forcipata (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 15.VII.1976 (He), 29.VII.1992 (ZiLa, 2). – Montane: Sarserra, 25.VII.1996 (ZiLa); Brunissard, 10.VII.1975 (He). – Submontane: NW. of St-Crépin, 4.VIII.1998 (Ts); St-Clément, 18.VI.1981 (Ts, 2). – 880–1950 m.

On flowers (usually *Laserpitium*).

Labigastera pauciseta (Rondani, 1861)

Montane: Col de la Pousterle, 5.VIII.1998 (ZiLa). – Submontane: Mont Dauphin, 28.VII.1996 (ZiLa, 5); Upaix, 27.V.2002 (Ts). – 740–1750 m.

On flowers of *Achillea*, or swept from a meadow with flowering *Euphorbia*.

Cylindromyia auriceps (Meigen, 1838)

Montane: N. of Ailefroide, 1.VIII.1983 (Ts); Les Mensals, 11.VIII.1998 (Ts, 2). – Submontane: La Bâtie, 22.VII.1996 (ZiLa); NW. of St-Crépin, 4.VIII.1998 (Ts); SE. of St-Crépin, 4.VIII.1998 (ZiLa); Mont Dauphin, 28.VII.1996 (ZiLa, 2); Prunières, 1.VII.1997 (ZiLa, 2). – 850–1700 m.

Swept from flowers (*Achillea*, *Thymus*, *Daucus*).

Cylindromyia bicolor (Olivier, 1812)

Submontane: Mont Dauphin, 5.VII.1992 (Ts, 2; Zi, 3); SE. of St-Crépin, 4.VIII.1998 (Ts); St-Clément, 18.VI.1981 (Ts, 2); Espinasses, 28.V.2002 (Ts); Rourebeau, 28.V.2002 (Ts). – 510–1000 m.

On flowers of Apiaceae (*Laserpitium*, *Eryngium*).

Cylindromyia brassicaria (Fabricius, 1775)

Alpine: Prorel, 6.VIII.1998 (ZiLa). – Subalpine: E. of Col du Lautaret, 15.VII.1976 (He), 29.VII.1992 (Ts; ZiLa, 3), 31.VII.1992 (Ts), 23.VII.1996 (ZiLa); Pré de Mme Carle, 8.VIII.1997 (Ts, 10), 10.VIII.1997 (Ts, 6), 8.VIII.1998 (Ts, 3); Les Têtes, 15.VIII.1997 (Ts, 2),

2.VIII.1998 (ZiLa), 5.VIII.1998 (Ts, 11; ZiLa, 13). – Montane: La Grave, 22.VII.1964 (He); Granon, 3.VIII.1983 (Ts); Col de l'Echelle, 2.VIII.1983 (Ts, 2); Chalets du Verney, 25.VII.1996 (ZiLa, 2); Sarserra, 25.VII.1996 (ZiLa, 2); Les Alberts, 16.VII.1976 (He); Roche Baron, 28.VII.1992 (ZiLa); Queyrières, 2.VII.1982 (Ts, 2); Les Chapins, 14.VIII.1998 (Ts, 2); N. of Ailefroide, 1.VIII.1983 (Ts), 21.VII.1996 (ZiLa), 6.VIII.1997 (Ts), 6.VIII.1997 (Ts); Entre-les-Aigues, 6.VIII.1997 (Ts, 2); Col de la Pousterle, 2.VIII.1998 (ZiLa), 5.VIII.1998 (ZiLa, 3), 9.VIII.1998 (Ts, 6); S. of Col de la Pousterle, 4.VIII.1998 (Ts), 9.VIII.1998 (Ts); Vallouise, 10.VII.1976 (He); Les Mensals, 11.VIII.1998 (Ts, 13). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts); NW. of St-Crépin, 4.VIII.1998 (ZiLa); Mont Dauphin, 28.VII.1996 (ZiLa, 3); Prunières, 1.VII.1997 (ZiLa), 3.VIII.1998 (ZiLa). – 850–2400 m.

On flowers (Apiaceae, *Achillea*, *Thymus*, *Mentha*, *Cerastium*, *Senecio*), only one specimen on a mountain peak on stones.

Cylindromyia brevicornis (Loew, 1844)

Alpine: Crête de Chaillol, 25.VII.1995 (Ts); Le Petit Aréa, 1.VIII.1992 (Ts); La Gardiole, 27.VII.1995 (Ts, 2); Prorel, 27.VII.1992 (ZiLa), 22.VII.1996 (ZiLa); Crête du Rocher Blanc, 26.VII.1995 (Ts, 2). – Subalpine: Les Têtes, 15.VIII.1997 (Ts, 5), 5.VIII.1998 (ZiLa, 4). – Montane: Vallouise, 25.VII.1964 (He); Montagne de St-Genis, 30.V.2002 (Ts, 2). – Submontane: SE. of St-Crépin, 4.VIII.1998 (Ts; ZiLa); Guillestre, 31.VII.1985 (Ts). – 900–2750 m.

Usually on mountain peaks sitting on the ground or on stones. Some specimens were collected at lower elevations from flowers (*Achillea*, *Mentha*, *Eryngium*).

Cylindromyia intermedia (Meigen, 1824)

Subalpine: Pré de Mme Carle, 10.VIII.1997 (Ts), 10.VIII.1998 (Ts). – Montane: Col de l'Echelle, 2.VIII.1983 (Ts), 1.VIII.1985 (Ts, 2); Les Chapins, 14.VIII.1998 (Ts); Les Mensals, 11.VIII.1998 (Ts); Vallée de Rabious, 3.VIII.1998 (ZiLa). – Submontane: E. of l'Argentière, 4.VII.1992 (Ts; Zi, 2); S. of l'Argentière, 30.VIII.1976 (He, 2), 14.VIII.1998 (Ts, 2); NW. of St-Crépin, 4.VIII.1998 (Ts, 5; ZiLa); Mont Dauphin, 5.VII.1992 (Ts, Zi), 28.VII.1996 (ZiLa, 3), 3.VIII.1998 (ZiLa); St-Clément, 18.VI.1981 (Ts, 2). – 880–1950 m.

On flowers (*Laserpitium*, *Peucedanum*, *Eryngium*, *Daucus*, *Mentha*).

Cylindromyia interrupta (Meigen, 1824)

Montane: Les Mensals, 7.VIII.1997 (Ts), 11.VIII.1998 (Ts, 2). – Submontane: Mont Dauphin, 28.VII.1996 (ZiLa). – 920–1400 m.

On flowers of *Mentha* and *Achillea*.

Cylindromyia pilipes (Loew, 1844)

Submontane: E. of l'Argentière, 4.VII.1992 (Zi); Guillestre, 31.VII.1985 (Ts). – 900–1000 m.

On flowers (*Laserpitium*, *Mentha*).

Cylindromyia pusilla (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (ZiLa, 2); Les Têtes, 5.VIII.1998 (ZiLa). – Montane: Le Monêtier-les-Bains, 22.VII.1964 (He, 2); Granon, 3.VIII.1983 (Ts, 4); Sarserra, 25.VII.1996 (ZiLa); Les Alberts, 9.VII.1976 (He); Briançon, 26.VII.1964 (He), 9.VII.1976 (He); Entre-les-Aigues, 13.VIII.1998 (Ts); Fressinières, 13.VII.1976 (He); Brunissard, 4.VIII.1983 (Ts, 2). – Submontane: S. of l'Argentière, 10.VIII.1997 (Ts); NW. of St-Crépin, 4.VIII.1998 (Ts; ZiLa, 3); SE. of St-Crépin, 4.VIII.1998 (ZiLa, 2); Mont Dauphin, 11.VII.1990 (Bartàk). – 900–2050 m.

Swept from meadows with flowers (*Laserpitium*, *Daucus* and others).

Cylindromyia rufifrons (Loew, 1844)

Submontane: Mont Dauphin, 28.VII.1996 (ZiLa). – 920 m.

Swept from low vegetation. – Recorded as *Ocyptera rufifrons* from Serres by Villeneuve (1907: 16). – Mediterranean species.

Cylindromyia xylotina (Egger, 1860)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (ZiLa, 2), 7.VIII.1998 (ZiLa); Les Têtes, 5.VIII.1998 (Ts). – Montane: Le Lauzet, 2.VIII.1992 (Ts). – 1700–2050 m.

On flowers (*Laserpitium*, *Achillea*), or swept from low vegetation.

Hemyda vittata (Meigen, 1824)

Montane: Forêt de Boscodon, 20.V.2002 (Ts), 26.V.2002 (Ts). – 1200 m.

In yellow pan traps.

Besseria anthophila (Loew, 1871)

Subalpine: Les Têtes, 2.VIII.1998 (ZiLa, 4), 5.VIII.1998 (Ts, 12; ZiLa, 10). – Montane: Col de l'Echelle, 29.VI.1982 (Ts); Montgenèvre, 12.VII.1990 (Bartàk); Briançon, 6.VI.1997 (Schmid-Egger); N. of Ailefroide, 17.VI.1983 (Ts), 1.VIII.1983 (Ts, 5); Col de la Pousterle, 2.VIII.1998 (ZiLa), 5.VIII.1998 (ZiLa, 3); S. of Col de la Pousterle, 4.VIII.1998 (Ts); Fressinières, 13.VII.1976 (He); Le Laus, 10.VII.1975 (He); Brunissard, 4.VIII.1983 (Ts, 5). – 1150–2050 m.

On flowers (*Achillea*, *Laserpitium*, *Seseli*). – Described as *Melia forcipata* by Bigot (1881: 368) from Abriès.

Besseria lateritia (Meigen, 1824)

Submontane: Mont Dauphin, 28.VII.1996 (ZiLa); Espinasses, 28.V.2002 (Ts). – 700–920 m.

On flowers of *Laserpitium* and *Achillea*.

Phania albisquama (Villeneuve, 1924)

Montane: Col de l'Echelle, 2.VIII.1983 (Ts, 10), 1.VIII.1985 (Ts, 8); S. of Col de la Pousterle, 4.VIII.1998 (Ts, 2); Brunissard, 31.VII.1985 (Ts, 2). – 1600–1850 m.

On flowers of Apiaceae (*Laserpitium*, *Seseli*).

Phania funesta (Meigen, 1824)

Subalpine: E. of Col du Lautaret, 29.VII.1992 (ZiLa), 30.VII.1992 (Ts), 14.VII.1997 (ZiLa); Pré de Mme Carle, 8.VIII.1997 (Ts, 3), 8.VIII.1998 (Ts); Les Têtes, 5.VIII.1998 (Ts, 2). – Montane: N. of Ailefroide, 5.VIII.1983 (Ts); Brunissard, 14.VII.1976 (He), 4.VIII.1983 (Ts), 11.VII.1991 (Ts), 5.VII.1992 (Zi, 2), 28.VII.1992 (ZiLa, 2), 13.VII.1997 (ZiLa, 3). – Submontane: Mont Dauphin, 28.VII.1996 (ZiLa, 3); St-Clément, 18.VI.1981 (Ts). – 880–2050 m.

On flowers (*Achillea*, *Cerastium*, *Laserpitium*, *Peucedanum*, *Leucanthemum*).

Phania speculifrons (Villeneuve, 1919)

Montane: Brunissard, 4.VIII.1983 (Ts). – 1850 m.

On flowers.

Phania thoracica Meigen, 1824

Montane: Les Alberts, 8.VII.1975 (He), 12.VII.1975 (He), 9.VII.1976 (He, 5); Col de la Pousterle, 2.VIII.1998 (ZiLa); Vallouise, 25.VII.1964 (He). – 1200–1750 m.

On flowers (*Achillea*).

5 Conclusions

There is no doubt that the Hautes-Alpes are an outstanding locality in Europe for the study of tachinids. Altogether 343 species are known at present from this department. This is far more than the 125 species collected by F. Keiser at the Swiss National park and its environments in the Grisons (TSCHORSNIG 1997a).

It is very probable, that in the Hautes-Alpes there exist more species of Tachinidae than are included in this paper. This concerns especially the lower parts of the department, where one might expect to find species that are more common in spring. The occurrence of nearly 400 species seems to be possible for the Hautes-Alpes.

The large number of species is probably due to the climate. At least the lower part of the Hautes-Alpes is affected by the Mediterranean climate. The main valleys of the rivers Durance and Buëch open to the south, and they are sheltered by the high mountains in their upper parts. Compared with other regions of the Alps with similar elevations, the Hautes-Alpes show less precipitation (700–900 mm in the lower parts, mainly in spring and autumn) and more sunshine, both being very favourable for most species of tachinids. The natural environment of the investigated area (including climate, geology, plant communities and plant geography) is described in more detail by BRAUN-BLANQUET (1961) and CHAS (1994).

The fluctuation of the species is striking. Extraordinary numbers of species and individuals can be observed in some years, whereas in other years there are only a few specimens at the same place and at the same season. For example: 68 species of tachinids were swept from flowers (mainly *Laserpitium*) near Brunissard during about five hours on 4.VIII.1983. Only 10 species could be observed a few years later on the same flowers on 4.VIII.1987. 98 species were collected in the Hautes-Alpes during the first two weeks of August 1997, whereas 166 species could be observed one year later during the same period at more or less the same places. The reason for such strong population dynamics is most probably the fluctuation of the hosts. The effect of the actual weather, which has a strong effect on the success of tachinid collections, can be ignored in the cases cited above.

64 species have been collected or recorded in the alpine vegetation zone, 147 in the subalpine zone, 273 in the montane zone, and 197 in the submontane zone. It is not surprising therefore that the central part of the "Parc National des Écrins", which covers mainly the high elevations, accommodates distinctly less species (71) than the peripheric zone (268) with lower elevations.

The majority of specimens were collected from flowers (for the complete listing of the genera see chapter 6). The family Apiaceae is well known as an important source of food for adult tachinids and in particular *Laserpitium*, which has an outstanding importance in this region. Also *Peucedanum*, *Seseli*, *Angelica*, *Daucus*, *Heracleum*, *Pastinaca*, *Eryngium*, and some other unidentified genera were visited. Species with a long proboscis may commonly visit *Mentha* or *Achillea*. *Euphorbia* is occasionally visited in spring. In the alpine or subalpine vegetation zone some flowers (*Thymus*, *Alchemilla*, *Cerastium*, *Senecio*, *Doronicum*) are important for certain genera which are able to feed using their long proboscises.

Some species which are normally inhabitants of the lowlands were observed in the Hautes-Alpes up to high elevations, e.g. *Tachina grossa* up to 2350 m, or *Carcelia gnava* up to 2400 m. It seems unlikely that these species may find suitable hosts near

the glaciers. The reason for their occurrence at such elevations might be migration, but practically nothing is known about this behaviour in tachinids. In other cases (e. g. *Trixa conspersa*) it is obvious that their presence at high elevations is due to the hilltopping behaviour of the species concerned. The latter is discussed by TSCHORSNIG (1996).

6 List of genera of flowering plants mentioned in the text

Apiaceae: *Angelica*, *Daucus*, *Eryngium*, *Heracleum*, *Laserpitium*, *Pastinaca*, *Peucedanum*, *Seseli*
Asteraceae: *Achillea*, *Anthemis*, *Cirsium*, *Doronicum*, *Leucanthemum*, *Senecio*
Caryophyllaceae: *Gypsophila*, *Cerastium*
Crassulaceae: *Sedum*
Dipsacaceae: *Scabiosa*
Euphorbiaceae: *Euphorbia*
Lamiaceae: *Mentha*, *Thymus*
Rosaceae: *Alchemilla*

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